

Operating Instructions
WIDE LCD TV

Model No. **TX-26LXD600A**
TX-32LXD600A

WARRANTY - Australia only

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or it's Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
- | | | |
|--|---|--|
| (a) Video or Audio Tapes | (d) Cabinet Parts | (g) Microwave Oven cook plates. |
| (b) Video or Audio Heads and Stylis resulting from wear and tear in normal use | (e) User replaceable Batteries | (h) Kneader mounting shaft unit (bread bakery) |
| (c) Shaver Heads or Cutters | (f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads | |
5. If warranty service is required you should:
- Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:

(a) Picture tube (CRT) based Television Receivers (screen sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)	(b) Convection/Combination Microwave Ovens
	(c) Whiteboard (except portable type)
6. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.
- Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.
- Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the *Trade Practices Act 1974* and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.
- November 2005

**THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

**If you require assistance regarding warranty conditions or any other enquiries,
please visit the Panasonic Australia website**

www.panasonic.com.au or by phone on 132 600

If phoning in, please ensure you have your operating instructions available.

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VIERA



Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

Matsushita Electric Industrial Co., Ltd.

Web Site : <http://panasonic.net/>

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English

Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.

DVB®

DOLBY®
DIGITAL

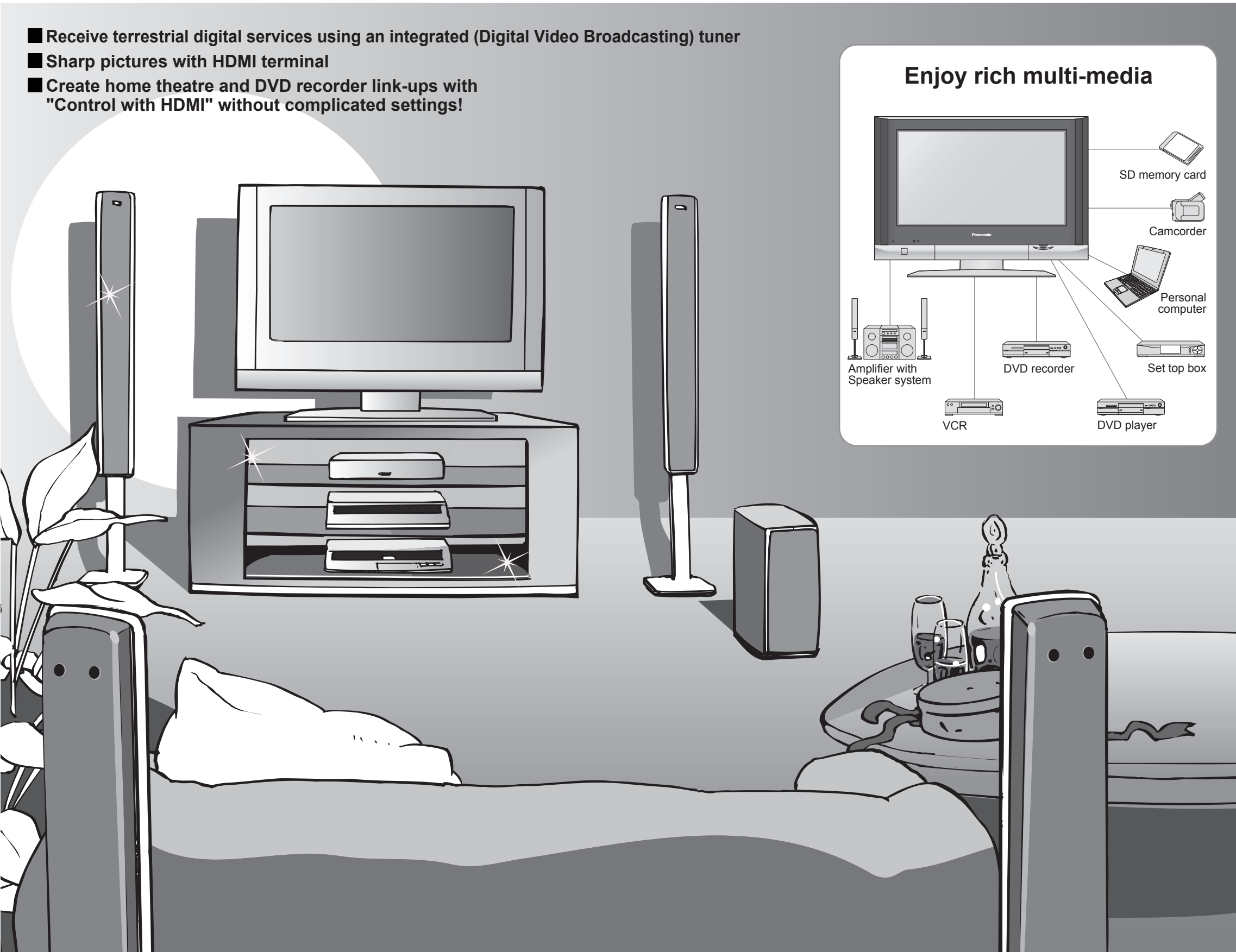
SD™

SRS®
TruSurround XT

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

Turn your own living room into a movie theatre!

Experience an amazing level of multi-media excitement



Contents

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(Warning / Caution)	
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Enjoy your TV!

Basic Features

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Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
 - Do not move the TV with the lead plugged in the socket outlet.
 - Do not place a heavy object on the lead or place the lead near a high-temperature object.
 - Do not twist the lead, bend it excessively, or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - Do not use a damaged mains plug or socket outlet.

If you find any abnormality, remove the mains plug immediately!

AC 220-240 V
50 / 60 Hz

Do not remove covers NEVER modify the TV yourself

(High-voltage components may cause serious electrical shock.)

- Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Do not place foreign objects inside the TV

- Do not let metal or flammable objects drop into the TV through the air vents (fire or electrical shock may result).

Do not expose to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

Keep liquids away from the TV

- To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
- Do not place containers with water (flower vase, cups, cosmetics, etc.) above the TV. (including on shelves above, etc.)

Do not place the TV on an unstable surface

Use only the dedicated stands / mounting equipment

- Using an unauthorized stand or other fixtures may make the TV shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional stands / mounts (p. 6).

Caution

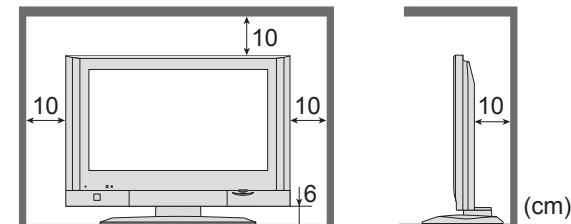
When cleaning the TV, remove the mains plug

(Cleaning an energized TV may cause electrical shock.)

When TV will not be used for a long time, remove the mains plug

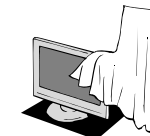
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

Allow sufficient space around the TV for radiated heat



Do not block the rear air vents

- Blocked ventilation by curtains, etc. may cause overheating, fire or electrical shock.

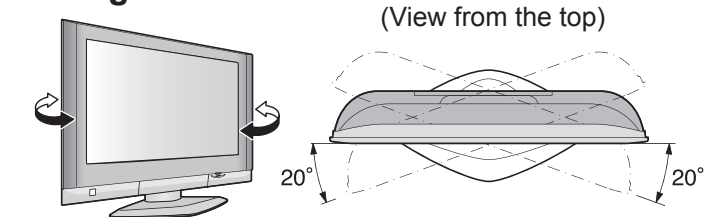


Notes

Keep the TV away from these equipment

- Electronic equipment
In particular, do not place video equipment near the TV (electromagnetic interference may distort images / sound).
- Equipment with an infrared sensor
This TV also emits infrared rays (this may affect operation of other equipment).

Adjust the LCD panel to your desired angle



Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Daily care: Gently wipe the surface clean of dirt by using a soft cloth.

Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or water containing a small amount of neutral detergent. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- The surface of the display panel has been specially treated and may be easily damaged. Do not tap or scratch the surface with your fingernail or other hard object.
- Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet

Daily care: Wipe the surface clean using a soft dry cloth.

Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

Caution

- Use care not to subject the TV's surfaces to detergent. (A liquid inside the TV could lead to product failure.)
- Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).
- Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. (Moisture and dust may lead to fire or electrical shock.)



Accessories / Options

Standard accessories

- ☐ Remote Control Transmitter
 - N2QAYB000039

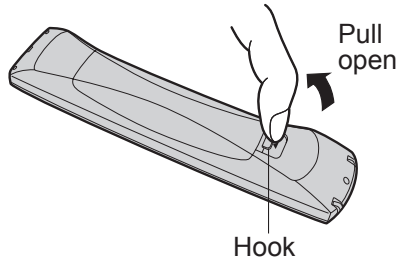
Check that you have the accessories and items shown ☒

- ☐ Batteries for the Remote Control Transmitter (2)
 - R6 (AA)
- ☐ Operating Instructions
- ☐ Guarantee



Installing remote's batteries

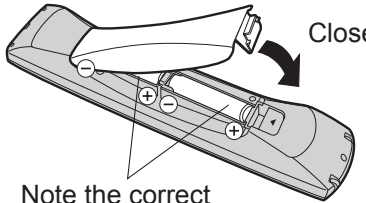
1



Pull open

Hook

2



Close

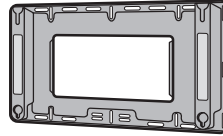
Note the correct polarity (+ or -)

Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup batteries.

Optional accessories

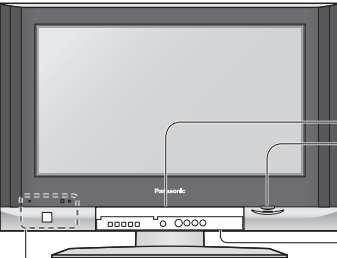
- Wall-hanging bracket
 - TY-WK32LX20W



Caution

- In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

Identifying Controls



Store setting (p. 24)
(Used to store tuning and other function settings)

SD CARD slot (p. 29)

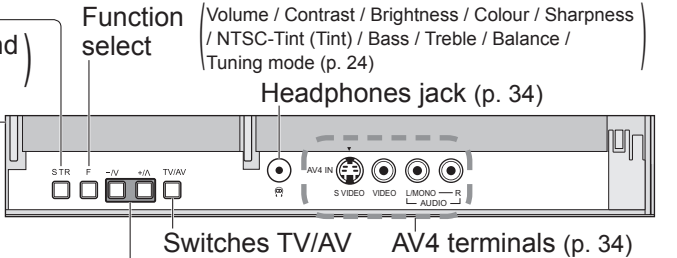
Remote control signal receiver

Backlight Automatic Tracking System sensor
(senses brightness to adjust picture quality in "Auto" Viewing mode) (p. 18)

On / Off switch

Power lamp (Standby: red
On: green)

Swing up the door at "PULL".

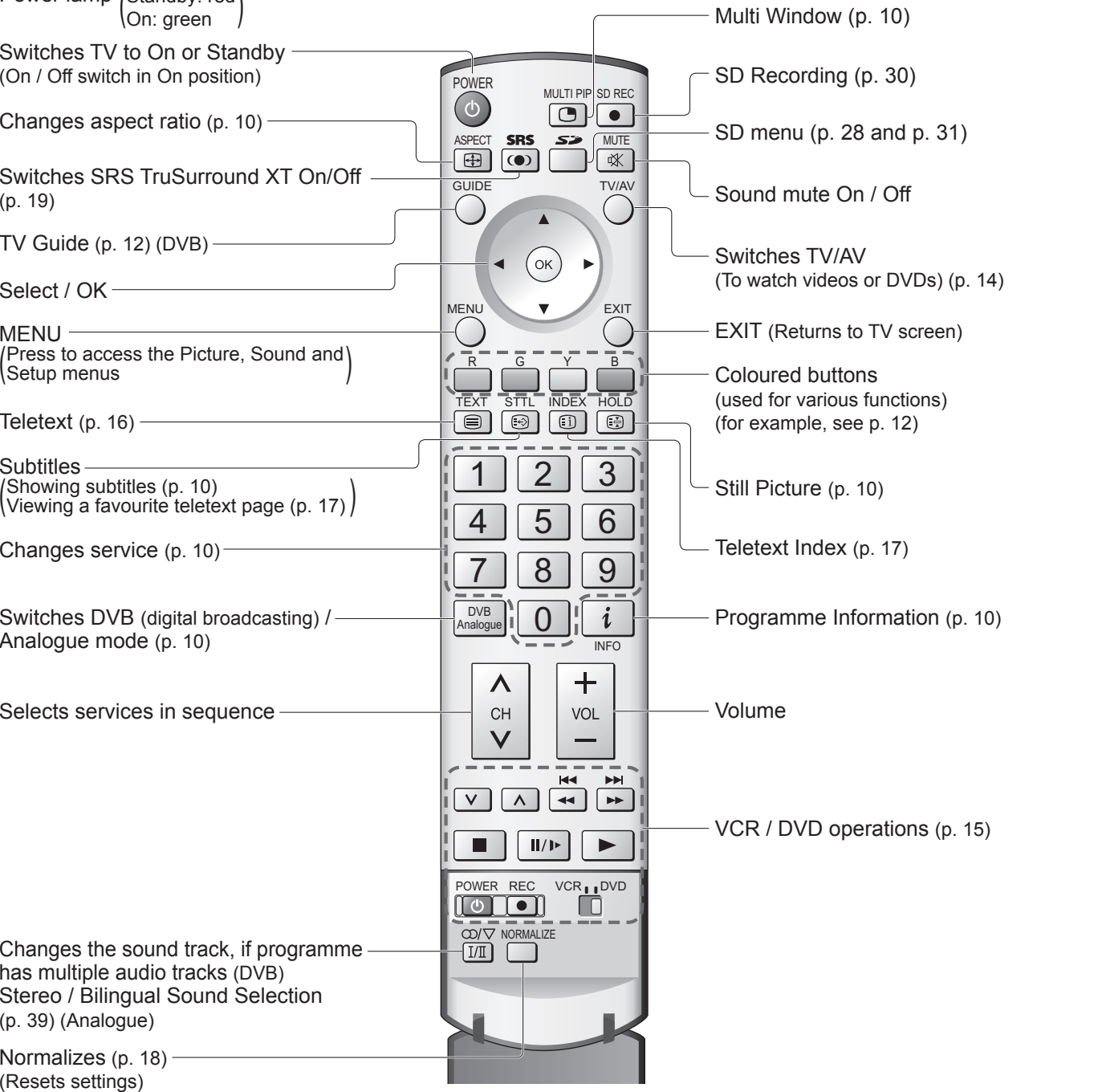


Function select
(Volume / Contrast / Brightness / Colour / Sharpness / NTSC-Tint (Tint) / Bass / Treble / Balance / Tuning mode (p. 24))

Headphones jack (p. 34)

Switches TV/AV
Increases or decreases the programme position by one. When a function is already displayed, press to increase or decrease the selected function. When in Standby mode, switches TV On.

AV4 terminals (p. 34)



Multi Window (p. 10)

SD Recording (p. 30)

SD menu (p. 28 and p. 31)

Sound mute On / Off

Switches TV/AV
(To watch videos or DVDs) (p. 14)

EXIT (Returns to TV screen)

Coloured buttons
(used for various functions)
(for example, see p. 12)

Still Picture (p. 10)

Teletext Index (p. 17)

Programme Information (p. 10)

Volume

VCR / DVD operations (p. 15)

Changes the sound track, if programme has multiple audio tracks (DVB)
Stereo / Bilingual Sound Selection (p. 39) (Analogue)

Normalizes (p. 18)
(Resets settings)

Selects services in sequence

Switches DVB (digital broadcasting) / Analogue mode (p. 10)

Teletext (p. 16)

Subtitles
(Showing subtitles (p. 10)
Viewing a favourite teletext page (p. 17))

Changes service (p. 10)

MENU
(Press to access the Picture, Sound and Setup menus)

Select / OK

TV Guide (p. 12) (DVB)

Switches SRS TruSurround XT On/Off (p. 19)

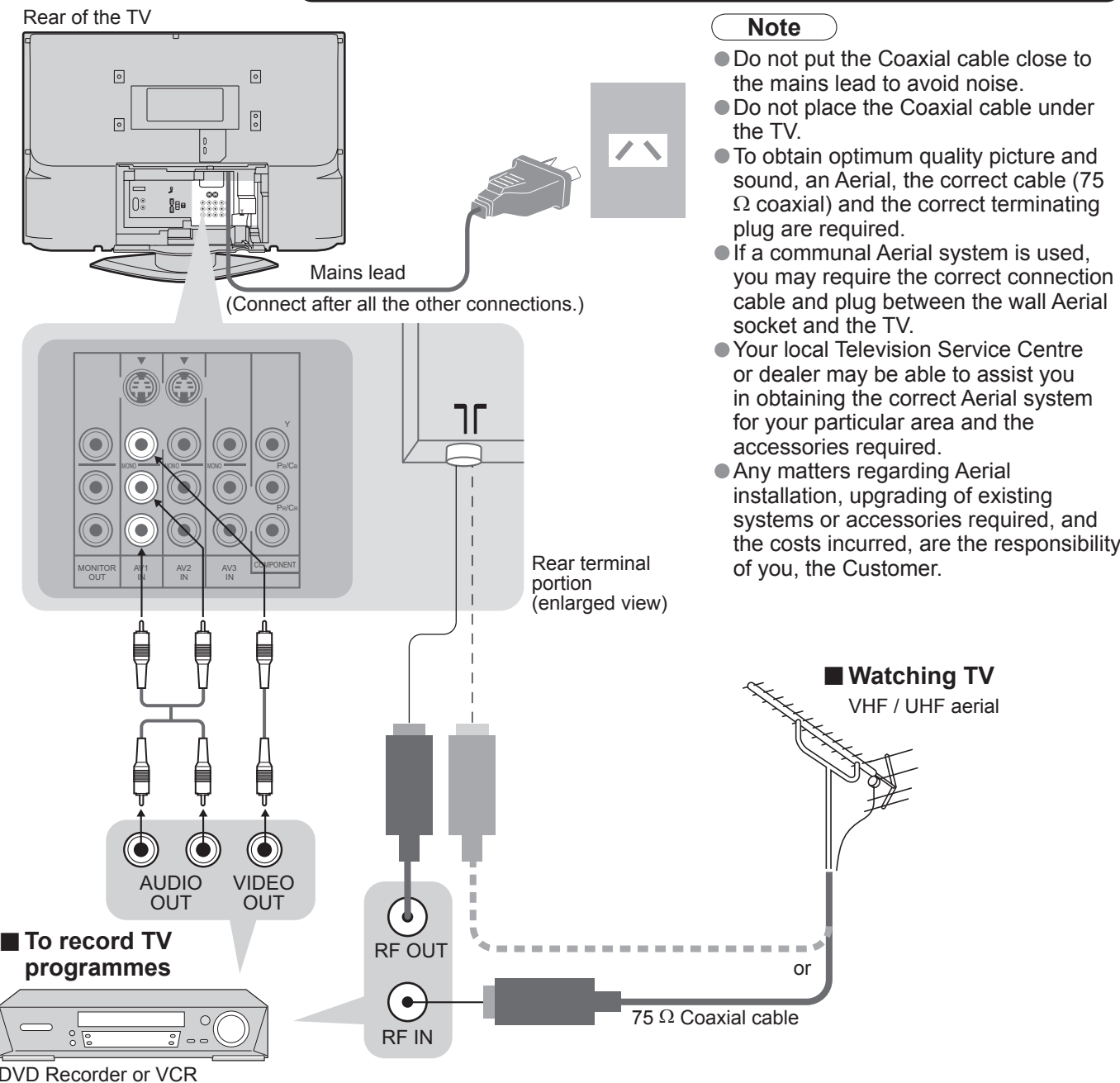
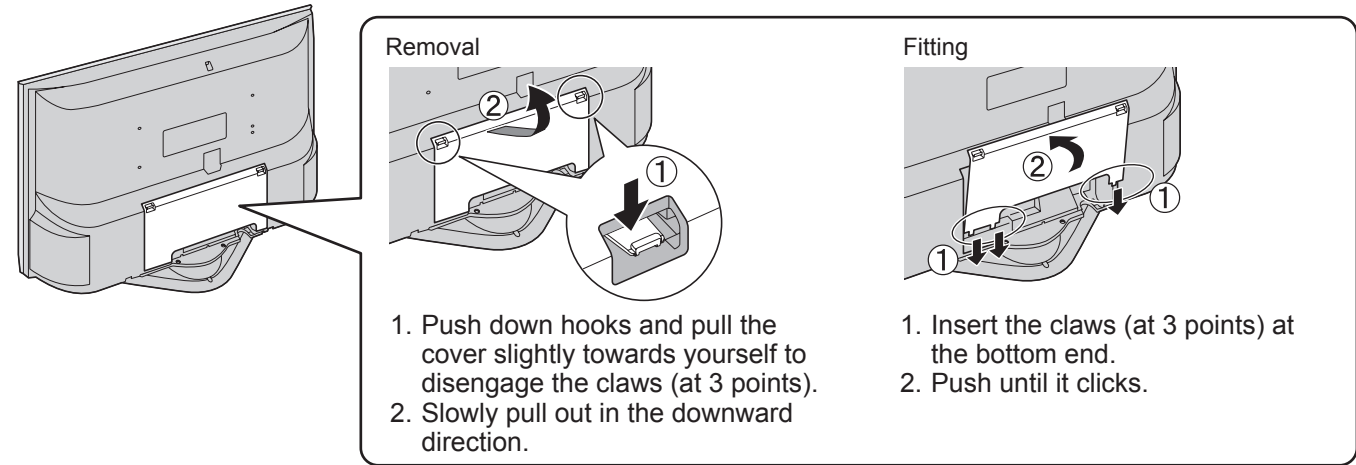
Changes aspect ratio (p. 10)

Switches TV to On or Standby
(On / Off switch in On position)

Connection

External equipments and cables shown in this manual are not supplied with this TV.
Please ensure that the unit is disconnected from the mains before attaching or disconnecting any leads.

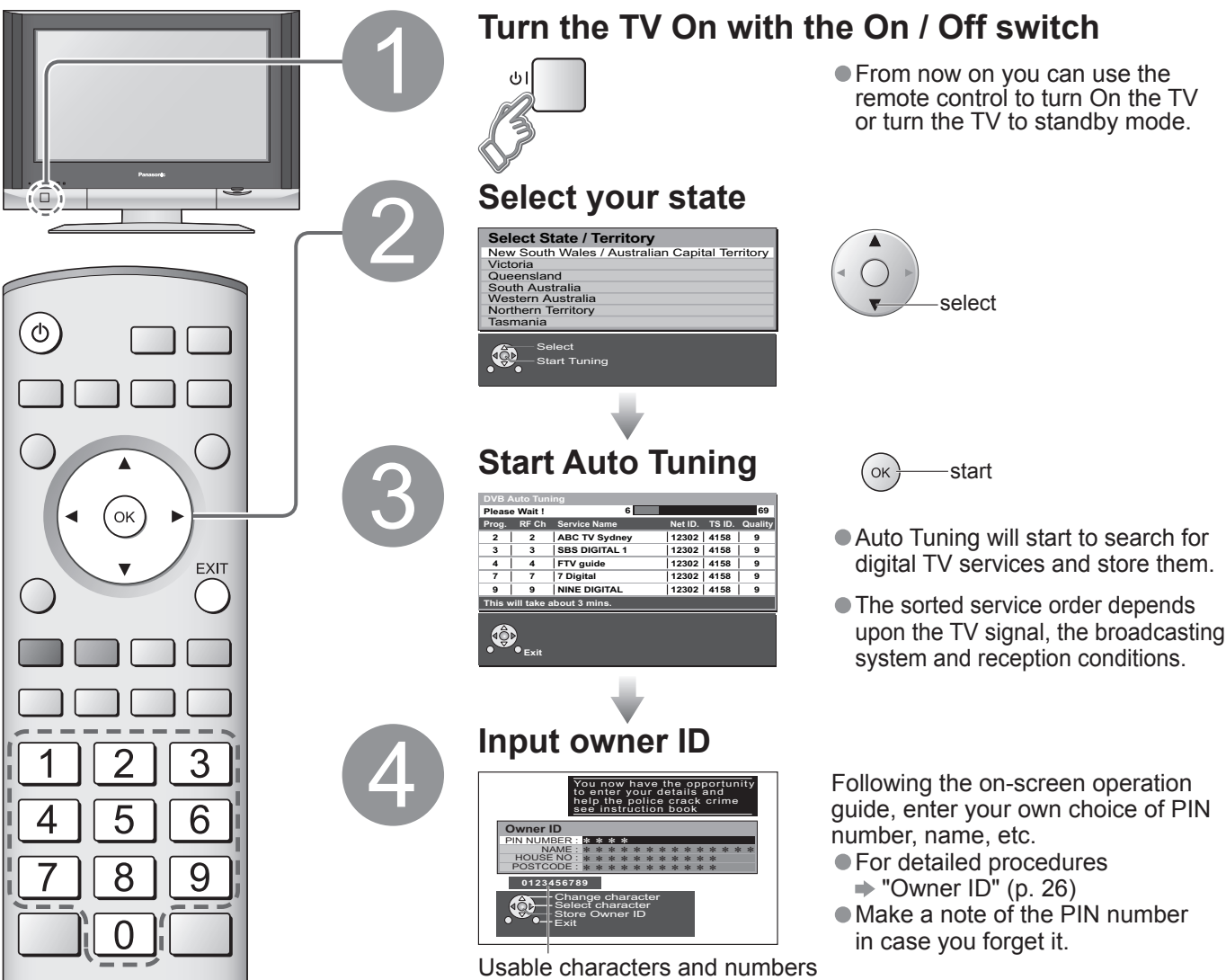
■ Cable cover removal and fitting



- Note**
- Do not put the Coaxial cable close to the mains lead to avoid noise.
 - Do not place the Coaxial cable under the TV.
 - To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
 - If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
 - Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
 - Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.

Auto Tuning

Search and store TV channels automatically.
These steps are not necessary if the setup has been completed by your local dealer.



- When inputting owner ID later**
- EXIT
- Following the on-screen operation guide, enter your own choice of PIN number, name, etc.
- For detailed procedures
➔ "Owner ID" (p. 26)
 - Make a note of the PIN number in case you forget it.
- If you input the ID later**
➔ "Owner ID" (p. 26)
- DVB Auto Tuning is now complete and your TV is ready for viewing.**
- To check service list at-a-glance
➔ TV Guide (DVB) (p. 12)
 - To edit analogue channels
➔ "Programme edit" (p. 24)

Need help with operations?
(example: Sound menu)

Sound menu
Bass Treble Balance Headphone volume Mode SRS TruSurround XT
Music Off

On-screen operation guide will help you.

This TV has been pre-tuned by the factory to the following Analogue TV channels.

Programme No.	Channel No.
1	10
2	2
3	28
7	7
9	9
31	31

If your location does not receive these channels, perform "Auto tuning" (p. 24).

Watching TV

1 Turn power on
 POWER (for about 1 second)
 ● On / Off switch on TV should be On.

2 Select DVB (Digital Video Broadcasting) or Analogue
 DVB Analogue
 ● Information banner

3 Select a service
 ▲ up or 1 2 3
 CH or 4 5 6
 ▼ down 7 8 9
 DVB Analogue 0 i INFO
 ▲ CH + VOL Volume
 ▼ -

■ To select more than two-digit service number
 e.g. 39 → 3 → 9 (in a short time)
 e.g. 390 → 3 → 9 → 0 (in a short time)

■ Select a channel using Information banner (DVB)
 i INFO → ① select service
 OK → ② watch

■ Select a service using TV Guide (DVB)
 → "Using TV Guide" (p. 12)

Hold

Display subtitles

Display information banner

Change aspect ratio

Watch TV, DVD, etc. in multi window

■ Other Useful Functions (Operate after ③)

Freeze / unfreeze picture



Display / hide subtitles (if available)



● This is the same as turning the teletext on and selecting P801.

Display programme information



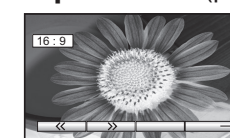
■ In DVB:



Programme Service Current time Current favourites list
 1 TEN Digital 10:30 am All Services
 Corontation Street
 9:00 am - 11:00 am ◀ Now ▶ Select FAV list
 Rating: PG I/II TEXT STTL
 After you have defined a Fav List, press B to change Fav List
 Displayed if programme has subtitle
 Displayed the rating information (p. 36)
 Displayed when programme contains Dolby Digital and MPEG audio sound
 Programme Start / Finish time

- Information of another service →
 - Information on next programme →
 - To watch the programme listed in the banner → OK
 - Information banner operation → i INFO
 - 1st press → 2nd press → 3rd press
 Display banner → Banner + programme synopsis → Exit
 - To set display timeout → "Banner Display Timeout" (p. 20)
 - To hide → EXIT
 - Appears also when changing service.
- In Analogue: Displays / hides status information.
 Displayed information:
 For example, Programme number, Channel number, Stereo mode, Aspect mode, Sound menu, Picture menu.

Change the aspect ratio (p. 37)

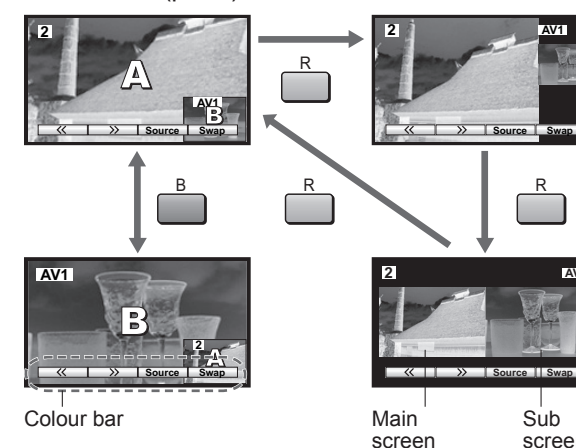


● Each press changes the mode.
 (16:9 / 14:9 / Just / 4:3 / 4:3 Full (HD signal only) /)
 Zoom1 / Zoom2 / Zoom3

● In DVB mode, aspect ratio is fixed at 16:9.

While the bar is displayed
 → R G

View in multi window (p. 37)



- To change the layout, etc. first show the colour bar → MULTI PIP
- To change the layout → R G
- To swap → B
- To change the source of sub screen → Y
- To return to the normal single-screen view → MULTI PIP

● Remote control operations apply to the main screen.

Using TV Guide

TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of programmes currently broadcast and future broadcasts over the next seven days (depending on the broadcaster).

1

DVB Analogue

Select DVB mode

2

GUIDE

View TV Guide

TV Guide date

Service

Programme

Current date and time

Wed 12th May

Program type

Favourites

1 TEN Digital

2 ABC TV Sydney

3 SBS DIGITAL 1

4 FTV guide

9:30 am - 10:00 am

Eastender

10:00 am - 10:30 am

DIY SOS

10:30 am - 11:00 am

The Bill

11:00 am - 11:30 am

Red Cap

11:30 am - 1:00 pm

Live junction

1:00 pm - 3:00 pm

POP 100

3:00 pm - 3:10 pm

Cinema info

3:10 pm - 4:00 pm

Sports

Exit

Select Programme

Select Service

View Programme

Exit

Page up

Page down

+24 Hr

Program type

Favourites

(Displays by time)

■ To previous day

→ R

■ To next day

→ G

■ To view a programme list of the selected type

→ Y

Program type

All Types

All Types

Movies

News

Entertainment

Sport

Children's

Music

Arts/Culture

Current Affairs

Education/Information

Infotainment

Special

Comedy

Drama

Documentary

(Type list)

① select type

② view

■ To view a programme list of the selected favourites list

→ B

Favourites

All Services

All Services

Fav List 1

Fav List 2

Fav List 3

Fav List 4

(Favourites list)

① select favourites list

② view

To list favourite services (p. 20)

■ To return to TV

→ EXIT

Panasonic

IDTV

(DVB mode only)

■ Other useful functions (Operate after ②)

View details of the programme

select

INFO

View details of the programme

Details

■ To return to the start page

INFO

Watch the programme

① select

② watch

(TV screen)

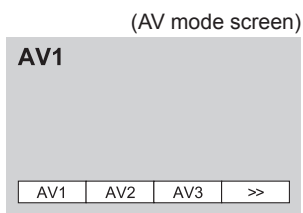

Note
● When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.

Watching Videos and DVDs

It is possible to connect a variety of external equipment to the TV. Once the equipment is connected, use the following procedure to view the input.
To connect the equipment (p. 34)

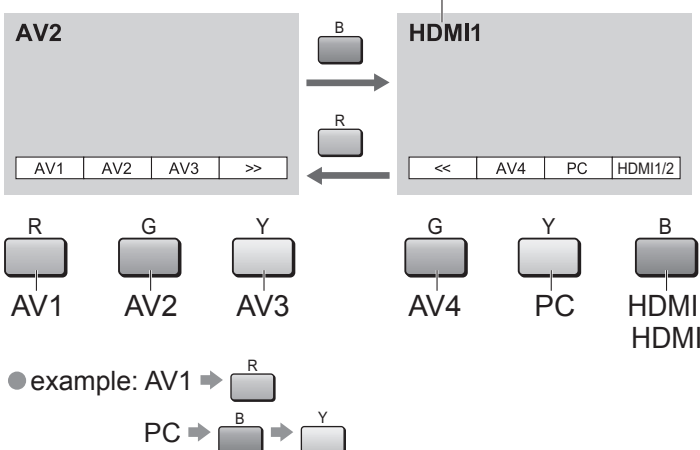
1

With the equipment turned On
Select the external input



2

Select the connector
connected to the equipment



Displays the selected connector

● example: AV1 → R → B → Y → PC

● When colour bar disappears → Press any coloured buttons










● You can also select the connector using the TV/AV button on the front panel of the TV.
Press the button repeatedly until you reach the connector to view.

■ To return to TV




Note

- If the external equipment has an aspect adjustment function, set to "16:9".
- For details, see the manual of the equipment or ask your local dealer.

Panasonic equipment connected to the TV can be directly operated with the remote control.

	VCR / DVD switch* Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player theatre
	Standby Set to Standby mode / Turn on
	Play Playback VCR / DVD
	Stop Stop the operations
	Rewind / Skip / Search VCR: Rewind, review (during playback) DVD: Skip to the previous track or title Press and hold to search backward
	Fast-forward / Skip / Search VCR: Fast-forward, cue (during playback) DVD: Skip to the next track or title Press and hold to search forward
	Pause Pause / Restart DVD: Press and hold for slow-motion play
	Programme Up, Down Select programme
	Record Start recording

*The remote control will be available for various Panasonic equipment with the following settings.

- ① Switch to select VCR or DVD you want to change → 
- ② Press and hold  while operating ② → Enter the code below (two digit code) → Press 
- 1

2

3

4

5

6

7

8

9

0

VCR

Equipment	Code
VCR	10 (default)
DVD	11

DVD

Equipment	Code
DVD	70 (default)
Player theatre	71

Note

- After setting, execute operation confirmation.
- The respective VCR / DVD code is turned to the default when battery has been exchanged. Set it again.
- Depending on the model, operation may not be possible.

Viewing Teletext

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by the broadcasters.

What is TOP mode?

In TOP mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

What is List mode?

In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

■ **To change mode** → "Teletext" in Setup menu (p. 18)

1 Switch to Teletext

- Displays Index (content varies depending on the broadcasters)

Sub page number
Current page number
Time / date
TELETEXT INFORMATION
Colour bar

2 Select the page

1 2 3
4 5 6
7 8 9
0

or

▲ up
CH
▼ down

or

R G Y B
(Corresponds to the colour bar)

As the blue bar is displayed

■ **To adjust contrast** → MENU → (Press twice) →

■ **To return to TV** → TEXT

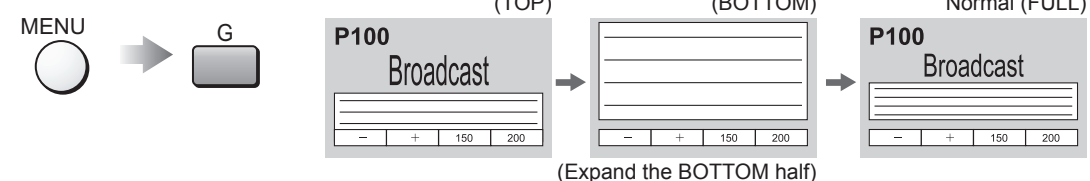
■ Using teletext conveniently

Reveal hidden data

Reveal hidden words e.g. quiz page answers



FULL / TOP / BOTTOM



HOLD

If you wish to hold the current page without updating

Stop or resume automatic updating

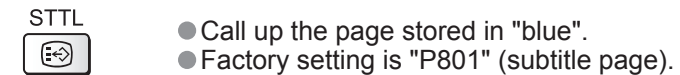


INDEX

Return to the main index page

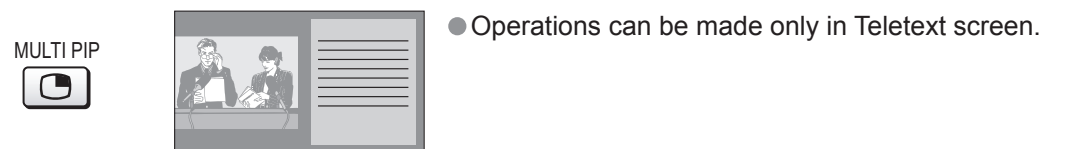


Call up a favourite pages



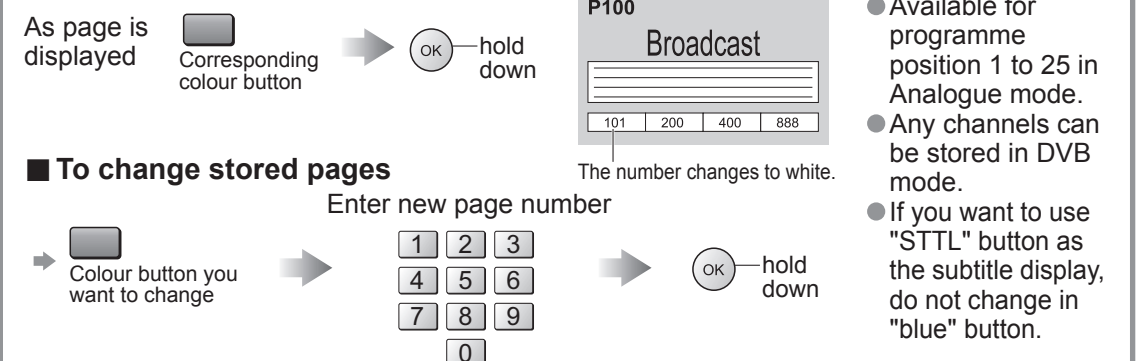
View in multi window

Watch TV and Teletext in two windows at once



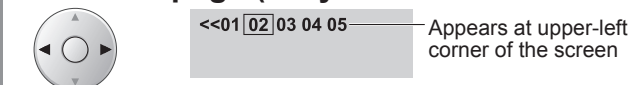
Store frequently viewed pages

Store frequently viewed pages in the colour bar (List mode only)

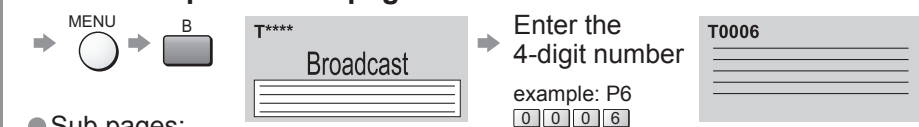


View sub page

View sub page (Only when teletext is more than one page)



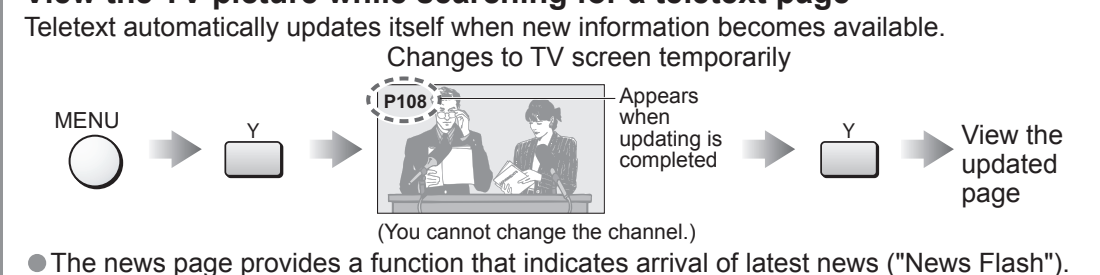
■ To view specific sub page



- Sub pages:
The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.

Watch TV while waiting for update

View the TV picture while searching for a teletext page



How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.

1

MENU

● Displays the functions that can be set (varies according to the input signal)

2

Select the menu

Main menu

Picture menu

Sound menu

Setup menu

(example: Picture menu)

3

Select the item

Picture menu

Viewing mode

Contrast

Brightness

Colour

Sharpness

Tint

Colour balance

Colour management

P-NR

MPEG NR

3D-COMB

(example: Picture menu)

4

Adjust or select

Picture menu

Viewing mode

Contrast

Brightness

Colour

Sharpness

Tint

Colour balance

Colour management

P-NR

MPEG NR

3D-COMB

(example: Picture menu)

1 select

2 access

select

1 change

2 store (Required by some functions)

EXIT

→

→

MENU

To return to TV

To return to the previous screen

Note

- To initialize all settings, use "Shipping condition" (p. 36).

Choose from among alternatives

Adjust using the slide bar

Go to the next screen

To reset the setting (Picture and Sound)

- Resets each Viewing mode (Dynamic / Normal / Cinema) to the default settings.

Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Picture menu	Viewing mode	Basic picture mode (Dynamic / Normal / Cinema / Auto) ● Set for each input signal Viewing mode Dynamic
	Contrast, Brightness, Colour, Sharpness	Adjusts colour, brightness, etc. for each picture mode to suit your taste Contrast Brightness Colour Sharpness
	Tint	Adjusts tint of image ● For NTSC signal reception only Tint
	Colour balance	Chooses the colour balance of the entire image (Cool / Normal / Warm) Colour balance Normal
	Colour management	Automatically adjusts colours to vivid ones (Off / On) Colour management On
	P-NR	Automatically reduces unwanted picture noise (Off / Normal / Dynamic / Auto) ● Not valid on HDMI, PC, and Analogue component signal ● Set to Off when receiving a strong signal P-NR Auto
	MPEG NR	Automatically reduces noise for watching DTV, DVD, VCD and SD Card (Off / Min / Mid / Max) MPEG NR Off
Sound menu	3D-COMB	Automatically makes still pictures and slow pictures look more vivid (Off / On) ● For PAL or NTSC signal reception only ● Not valid on RGB, SECAM, S-Video, components, PC, HDMI and SD Card ● Cannot be used with DVB 3D-COMB On
	Bass	Adjusts the output level of deep bass Bass
	Treble	Adjusts the output level of high-pitch, shrill sound Treble
	Balance	Adjusts volume level of right and left speakers Balance
	Headphone volume	Adjusts the volume of the headphones Headphone volume
	Mode	Improves sound quality for music and dramas (Music / Speech) Mode Music
	SRS TruSurround XT	SRS TruSurround XT® creates a high quality surround sound effect using just two speakers from the source which can output surround encoded signals (Off / On) ● Switching is also possible by SRS button on the remote control SRS TruSurround XT Off
Setup menu	HDMI1 input	Chooses according to the signal when HDMI is connected (Auto / Digital / Analogue) (p. 38) ● HDMI2 terminal is for digital signal only HDMI1 input Auto
	HDMI setting	Control with HDMI function (p. 32) HDMI setting Access
	Teletext	Teletext display mode (TOP / List) (p. 16) Teletext TOP
	Off timer	Sets the time the TV automatically turns Off. (Off / 15 / 30 / 45 / 60 / 75 / 90) (minutes) Off timer Off
	Tuning menu	Edits or sets channels (Analogue) (p. 24) Tuning menu Access
	DVB Setup Menu	Setups DVB channels (p. 20) DVB Setup Menu Access
	DVB Tuning Menu	Edits or sets channels (DVB) (p. 22) DVB Tuning Menu Access
Setup menu	Owner ID	Inputs the owner ID (p. 26) Owner ID Access
	Shipping condition	Resets all settings, for example, when moving house (p. 36) Shipping condition Access
	Volume correction	Adjusts volume for DVB, AV, PC, HDMI and component mode Volume correction
	Colour matrix	Displayed during AV or DVB mode Available only with 480p or 576p input signals in a natural colour from DVB service or digital equipment connected to AV3 Component or HDMI1 / HDMI2 terminals Select SD or HD to adjust suitable colour parameters for SD (standard definition) or HD (high definition) ● SD: Input signal is a normal TV system ● HD: Input signal is a High-Definition system Colour matrix SD
		● A different menu will be displayed while PC or SD Card is used. (p. 27 and p. 28)
		● In AV mode, the Sound menu and Setup menu change a number of options.

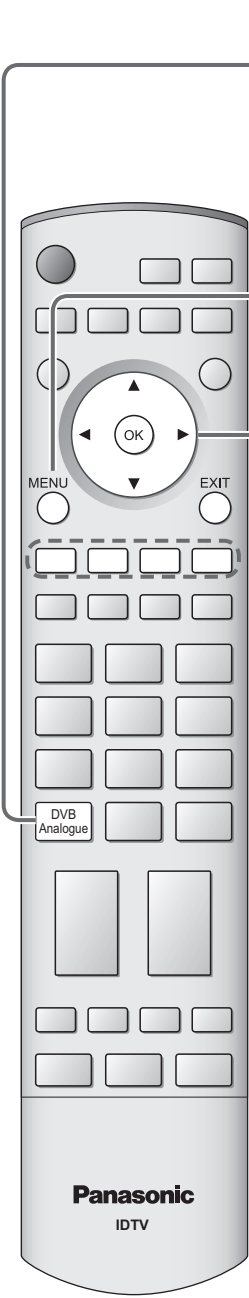
How to Use Menu Functions
(picture, sound quality, etc.)


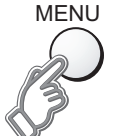
Advanced

18

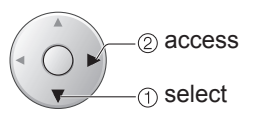
19

Advanced DVB Settings

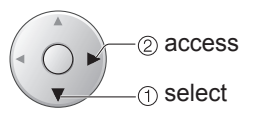


- 1 **Select DVB mode**

- 2 **Display the menu**

- 3 **Select "Setup menu"**

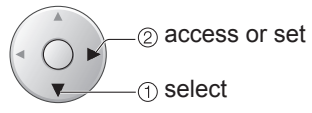

Main menu	
Picture menu	
Sound menu	
Setup menu	



- 4 **Select "DVB Setup Menu"**

Setup menu	
HDMI setting	TOP
Teletext	Off
Off timer	SD
Colour matrix	
Volume correction	
DVB Setup Menu	Access
DVB Tuning Menu	
Owner ID	
Shipping condition	


- 5 **Select the function**

DVB Setup Menu	
Favourites Edit	Access
Banner Display Timeout	4 seconds
Audio Preference	Dolby Digital
SPDIF Selection	Auto
MPEG Audio Level	0dB
System Update	


- 6 **Set**
- 7 **Store**


■ **To exit**


● If you exit after 6, the setting is not stored after turning off the TV.

(DVB mode only)

Create your favourite service List from various broadcasters (up to 4: Fav List 1 / Fav List 2 / Fav List 3 / Fav List 4). The list is displayed in information banner (p. 10), TV Guide (p. 12) and then easily accessed.

① Select a service and add it to the list

A service is added



To display another List



■ To edit List

● Move the cursor to the field of List to edit and:

● Delete the service → → → OK

● Delete all services → → OK

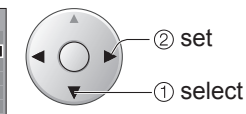
● Move the service → → Select the position → → Confirm → OK

② Store



Select "Banner Display Timeout" and set the time

DVB Setup Menu	
Favourites Edit	
Banner Display Timeout	4 seconds
Audio Preference	Dolby Digital
SPDIF Selection	Auto
MPEG Audio Level	0dB
System Update	

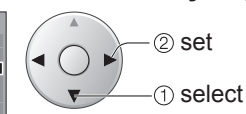


- 0 (No display) to 10 sec. in 1-sec. increments
- Information banner (p. 10)

This is the initial setting for Audio tracks. If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select.

Select "Audio Preference" and set "Dolby Digital" or "MPEG"

DVB Setup Menu	
Favourites Edit	
Banner Display Timeout	4 seconds
Audio Preference	Dolby Digital
SPDIF Selection	Auto
MPEG Audio Level	0dB
System Update	



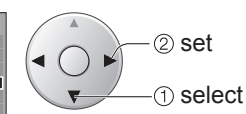
Dolby Digital : A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio.

MPEG : An audio compression method that compresses audio to small size without any considerable loss of audio quality.

This is the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal.

Select "SPDIF Selection" and set "Auto" or "PCM"

DVB Setup Menu	
Favourites Edit	
Banner Display Timeout	4 seconds
Audio Preference	Dolby Digital
SPDIF Selection	Auto
MPEG Audio Level	0dB
System Update	



Auto: Dolby Digital is output as Bitstream (5.1ch).

● Dolby Digital is available for Bitstream (5.1ch) and PCM (2ch).

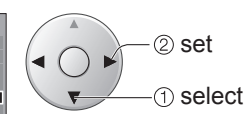
● MPEG is fixed to PCM.

Normally, MPEG sound is larger than Dolby Digital one.

You can adjust the audio level of MPEG as the initial setting.

Select "MPEG Audio Level" and set the level of the MPEG

DVB Setup Menu	
Favourites Edit	
Banner Display Timeout	4 seconds
Audio Preference	Dolby Digital
SPDIF Selection	Auto
MPEG Audio Level	0dB
System Update	

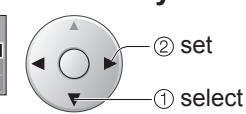


● 0dB to -12dB in -2dB reductions

Update the software at appropriate intervals to ensure that the TV's performance and functions are updated. For details (p. 36)

Select "Auto Update Search in Standby" and then select "On" or "Off"

DVB System Update	
Auto Update Search in Standby	On
System Update Search Now	
Software Licence	



On: Automatically performs a search in standby at 3:00 AM and 5:00 AM and downloads an update, if any

■ To update immediately

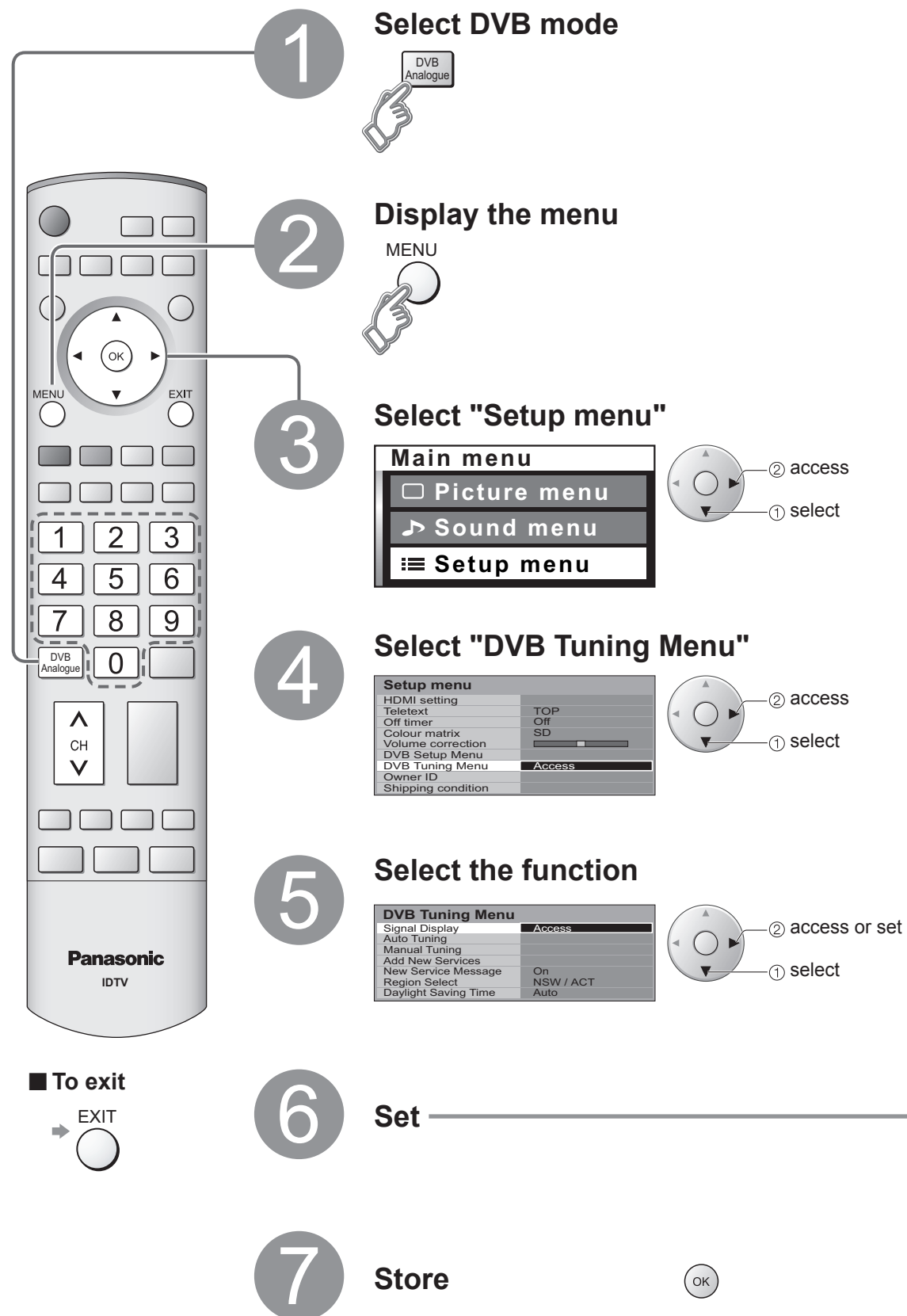
➔ Select "System Update Search Now" ➔ Searches for an update (for several min.) and displays a corresponding message if any ➔ ➔ Downloads (for about 20 min.)

■ View software licence information

➔ Select "Software Licence" ➔ Display

Editing and Setting Channels

You can re-tune DVB TV channels when moving house or search for new services which may have recently started broadcasting.



- If you exit after ⑥, the setting is not stored after turning off the TV.

(DVB mode)

Selects a service and checks the DVB signal condition.
Use for adjusting the direction of the aerial.

The Signal Display shows the following information:

- Service Name:** [CH49] 50 SC10 HD
- Signal Quality:** Represented by a bar graph showing approximately 10% quality.
- Signal Strength:** Represented by a bar graph showing approximately 10% strength.

The bar graphs for Signal Quality and Signal Strength have a scale from 0 to 10.

- To change the service during the menu appears



Signal Quality:

- Green bar ➔ Good
- Amber bar ➔ Poor
- Red bar ➔ Bad (Check the aerial)

Automatically sets the DVB channels received in the area.
The current settings are erased

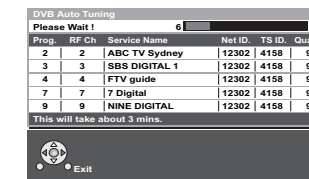
① Start Auto Tuning



start

OK

② **Settings are made automatically**

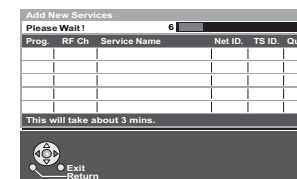


- No data is stored if an Auto Tuning sequence is interrupted.

Sets the DVB services manually.

Normally use "Auto Tuning" or "Add New Services" for the service setting.

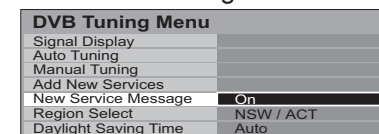
A new service is added to the DVB service list, when found.



- The new service is added with the current settings saved as they are.

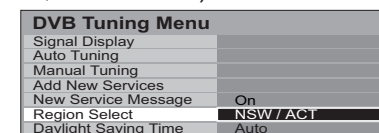
Selects whether to give a notification message when a new DVB service is found.

(Message example)

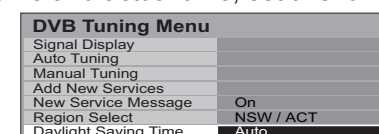


New DVB Service Found!
Press OK to add new service
Press EXIT to Ignore

Selects the region where you live to adjust the standard time. The time contained in the broadcast signal is UTC (Universal time, coordinated).



Select time offset from the standard time for Summer Time. Normally select "Auto". If there is a gap between displayed time and actual time, set this function.



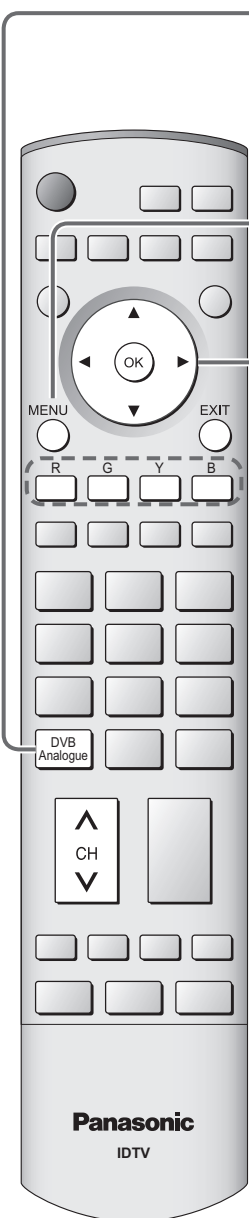
Region	Standard time	Daylight Saving Time: Auto (During Summer Time)
NSW / ACT	+10:00	+11:00
Victoria		
Queensland	+10:00	
South Australia	+9:30	+10:30
Western Australia	+8:00	
Northern Territory	+9:30	
Tasmania	+10:00	+11:00

(Based on GMT)

(Based on GMT)

Editing and Setting Channels

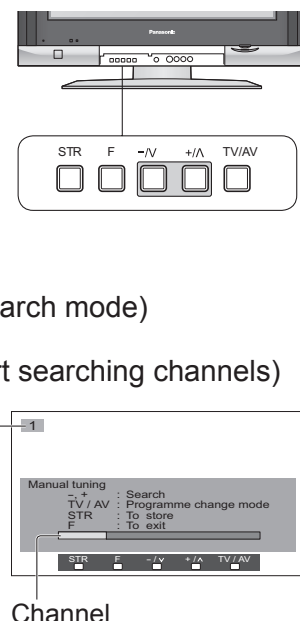
The current channel settings can be changed according to your needs and reception conditions.



- Select Analogue mode**
DVB Analogue
- Display the menu**
MENU
- Select "Setup menu"**
Main menu
Picture menu
Sound menu
Setup menu
- Select "Tuning menu"**
Setup menu
HDMI setting
Teletext
Off timer
Tuning menu
Owner ID
Shipping condition
- Select the function**
Tuning menu
Programme edit
Auto tuning
Manual tuning
Volume correction
- Set**

For Manual tuning, using the buttons on the TV
("Tuning mode" on p. 7)

- (Press repeatedly until "Tuning mode" appears)
 - or (Access "Manual tuning")
 - (Programme change mode, Search mode)
 - or (Change programme, Start searching channels)
 - (Store)
 - ③-⑤ (Repeat)
- To return to TV**



Edit channels

Programme edit

- Delete
- Add
- Move
- Change name
- Lock
- Skip

Set automatically

Auto tuning

Set manually

Manual tuning

Volume adjustment

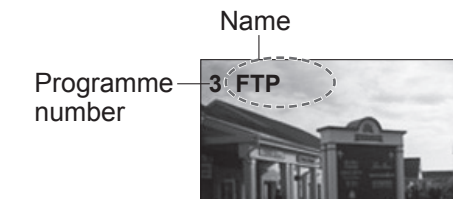
Volume correction

(Analogue mode)

① Select the programme number to edit

Prog.	Name	Lock	Skip
1	ABC	Off	Off
2	XYZ	Off	Off
3	FTP	Off	Off
4	123	Off	Off
5	456	Off	Off

Cursor
select



② Edit

- To delete** → → After confirming, press
- To add** → → After confirming, press
- To move** → → Select destination →

To change the name of the broadcaster displayed when selecting channels

Prog.	Name	Lock	Skip
1	ABC	Off	Off
2	XYZ	Off	Off
3	FTP	Off	Off
4	123	Off	Off
5	456	Off	Off

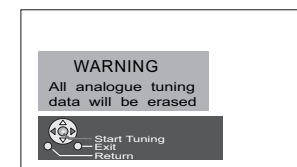
Usable characters
Repeat

③ Store



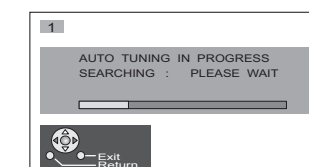
Automatically set the channels received in the area

① Start Auto tuning



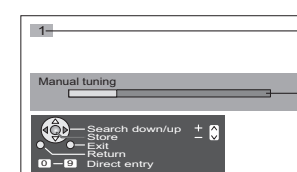
- All previous settings are erased.
- When the sequence is completed, the broadcast of programme number "1" will appear.
- If you want to return to the factory settings (Analogue channel pre-tuned), perform "Shipping condition" (p. 36).

② Settings are made automatically

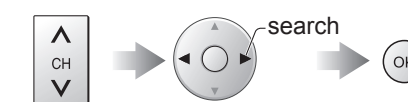


To freely change settings after Auto tuning

① Select the programme number and search through the channel



Programme number
Channel



② Store

③ Repeat ① and ②

- The programme number blinks.

Note

- If a VCR is connected with only the RF cable, select programme number "0".

For the small adjustments for the volume of an individual channel

Select the channel you want to adjust → Set this function →

Owner ID

1

Display the menu

2

Select "Setup menu"

② access
① select

3

Select "Owner ID"

② access
① select

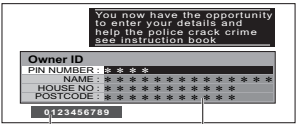
■ To exit

EXIT

Input owner ID

Entry of the security code (PIN number) and "personal information" (your name, address and zip code) in the TV allows the police to quickly trace the owner in case of theft.
If a PIN number has already been stored, personal information can be changed by entering that number.

① Enter the 4-digit PIN number



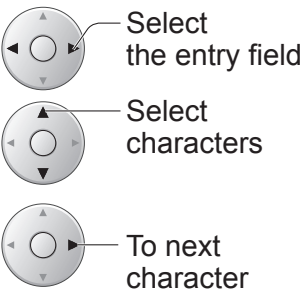
Characters Entry field

■ To change the stored information

Enter the
PIN number →

- Make a note of the PIN number in case you forget it.

② Enter your name, address, and zip code, in that order



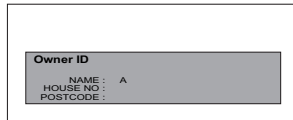
③ Store

— store

To check the "personal information" stored

Hold down for about 6 sec.

Displays the information on the screen (for several sec.)



- The PIN number is not displayed.

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV.
You can also listen to PC sound with the audio cable connected. To connect PC (p. 34)

1

Select the external input

2

Select "PC"

① B (To next page)
② Y

■ To return to TV →

Displays PC screen

- Corresponding signals (p. 39)
- If "H-freq." or "V-freq." is shown in red, the signals may not be supported.

■ PC menu setting (changed as desired)

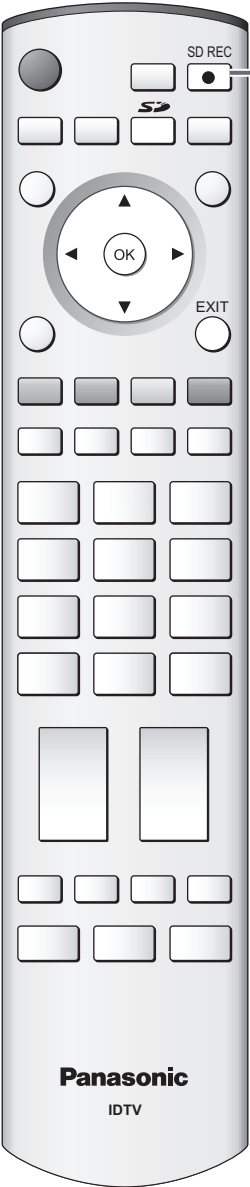
- Making settings → "How to Use Menu Functions" ① to ④ (p. 18)

Menu	Item	Adjustments / Configurations (options)
Picture menu	Viewing mode, Contrast, Brightness, Sharpness, Colour balance (p. 18)	
	Advanced setting	R-Gain Adjusts the white balance for red areas
		G-Gain Adjusts the white balance for green areas
		B-Gain Adjusts the white balance for blue areas
		Gamma (2.0 / 2.2 / 2.5)
Setup menu	PC setup	Input resolution Switches to a wide view ● VGA (640 x 480 dots), WVGA (852 x 480 dots), XGA (1,024 x 768 dots), WXGA (1,366 x 768 dots) ● Options change depending on signals
		Clock Set to the minimum level if noise occurs
		H-pos Adjust horizontal position
		V-pos Adjust vertical position
		Clock phase Eliminate flicker and distortion ● Adjust after Clock adjustment ● Set to the minimum level if noise occurs
		Sync Chooses another synchronous signal if the image is distorted (H&V / On G) ● H&V : by the horizontal and vertical signals from your PC ● On G : by the green signal from your PC (if available)
		HDMI setting, Volume correction (p. 18)

- Sound menu (p. 18)

Recording a Programme on SD Card

The TV channels can be recorded on the SD card. The recording is not available for AV input signal. During recording, it is possible to watch other terminals input signal.



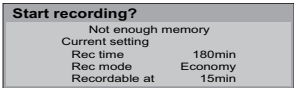
1 Insert the SD Card (p. 29)

2 While watching a programme



- Recordable time is displayed if the recording time is not set (p. 31).
- Start recording → OK
- Cancel → EXIT

■ Should such a message appear



- Card capacity is not enough.
- Continue → OK
- (Recording is stopped when the card capacity is full.)
- Cancel → EXIT

3 To stop



OK
(During the confirmation message appears)

Note

- You cannot record the copy protected signals.
- If the Off timer function is activated or press the Standby On / Off button on the remote control during recording, the recording will not stop.
- Do not press the On / Off switch on the TV during recording. Otherwise the file will be broken.
- Do not remove the SD card while recording. The data being recorded and other data stored on the SD card may become unreadable.
- SD recording may not be fully compatible or playable in some PC software or PDA devices.
- When two pictures are shown on the same screen as Multi window functions, the main window is the one that is recorded. (p. 10)
- If the signal system is changed during recording, it cannot be recorded completely.
- The signals without video (only audio) cannot be recorded completely.

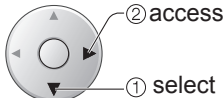
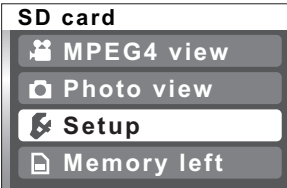
This product is licensed under the MPEG-4 patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the MPEG-4 Video Standard ("MPEG-4 Video") and/or (ii) decode MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a licensed video provider. No license is granted or implied for any other use. Additional information may be obtained from MPEG LA. See <http://www.mpegla.com>.

To set the recording time and mode / To format the card

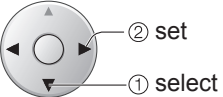
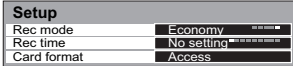
① Select the SD mode



② Select "Setup"



③ Set



Menu	Item	Adjustments / Configurations
Setup menu	Rec mode	Select image quality (Extra fine / Super fine / Fine / Normal / Economy) <ul style="list-style-type: none">● The quality of audio is not changed.● Multi Media Cards do not support the Extra fine and Super fine recording mode. If the recording is started in these status, recording will automatically be performed in the Fine mode.
	Rec time	Select recording time (No setting / 5 / 10 / 15 / 30 / 60 / 90 / 120 / 180min) <ul style="list-style-type: none">● No setting : Recorded until the Card capacity is full
	Card format	Format the card inserted in the SD Card slot (all data is erased) <ul style="list-style-type: none">● Do not remove the SD card while formatting. That may cause the card not to be able to record properly.

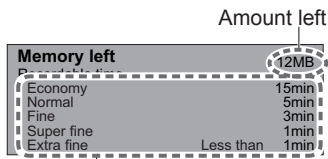
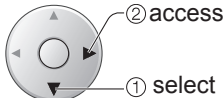
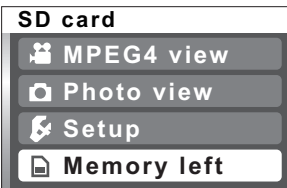
To check memory left

You can confirm the remaining time for recording in each Rec mode.

① Select the SD mode



② Select "Memory left"



Displays recordable time for each mode

- Since Multi Media Cards do not support the Extra fine and Super fine recording mode, "----" appears.
- Time is approximate.

Recordable time of SD Card

● Recording mode and approximate time

Size	Extra fine	Super fine	Fine	Normal	Economy
64MB	7minutes	9minutes	23minutes	34minutes	1hour 21minutes
128MB	14minutes	18minutes	44minutes	1hour 6minutes	2hours 35minutes
256MB	28minutes	37minutes	1hour 32minutes	2hours 17minutes	5hours 20minutes
512MB	55minutes	1hour 10minutes	3hours	4hours 30minutes	10hours 40minutes
1GB	1hour 50minutes	2hours 20minutes	6hours	9hours	21hours 20minutes

External Equipment

Control with HDMI "HDAVI Control™"*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. HDMI connections to some Panasonic equipments (Panasonic DVD Recorder DIGA, Panasonic Player theatre, Panasonic Amplifier, etc.) allow you to enjoy the easy playback or home theatre.

About connections, see p. 33. Read the manuals of the equipment too.

Non-HDMI-compliant cables cannot be utilized.

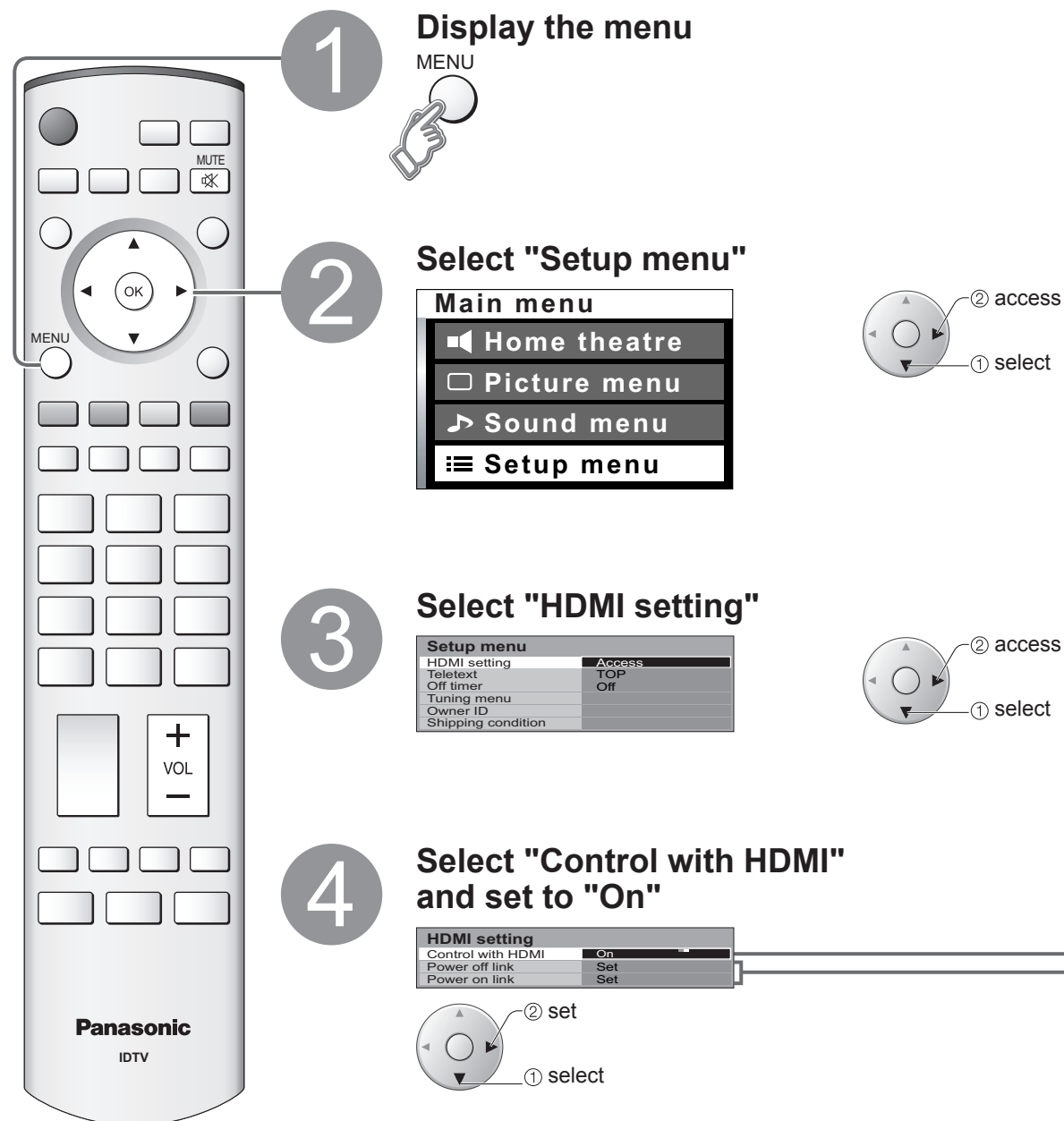
About applicable equipments, consult your local Panasonic dealer.

Preparations

(For the first time / When adding new equipment, reconnecting equipment or changing setup)

After connection turn the equipment on and then switch the TV on.

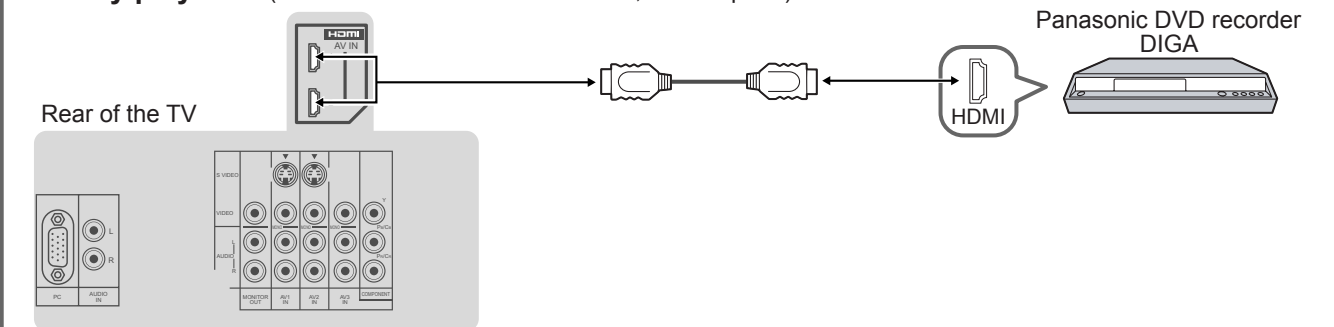
Select the input mode to HDMI1 or HDMI2 (p. 14), and make sure that an image is displayed correctly.



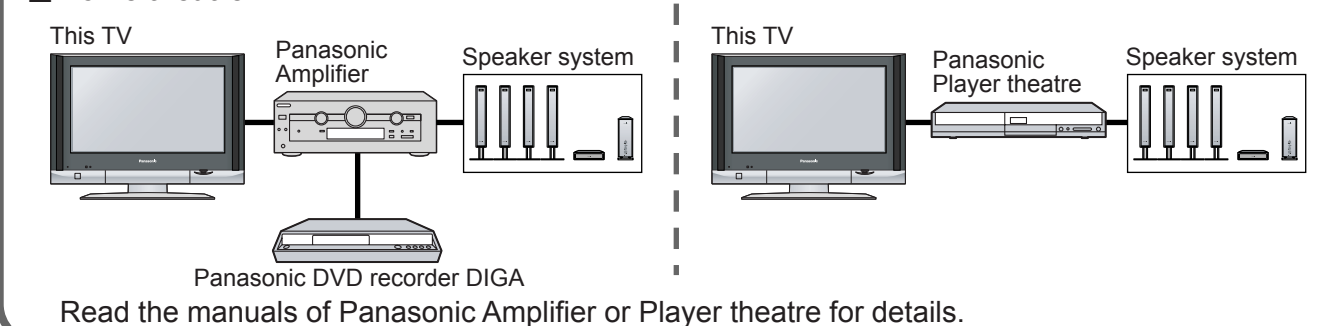
- It is recommended that you use Panasonic's HDMI cable.
Recommended part number:
RP-CDHG15 (1.5 m)
RP-CDHG30 (3.0 m)
RP-CDHG50 (5.0 m)

Connections for Control with HDMI

■ **Easy playback** (For connection to HDMI2 terminal, refer to p. 34)




■ Home theatre

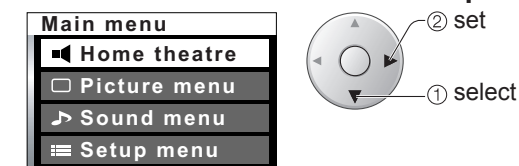


Easy playback

Automatic Input switching-When the connected Panasonic equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is not returned.

You can control the theatre speaker with TV's remote control.
This function is available when Panasonic Amplifier or Player theatre is connected.

- ① **Display the menu** ➔ 
- ② **Select "Home theatre" or "TV speaker"**



■ **Home theatre:**

Adjustment for equipment (automatically turned on if it is in Standby mode)

Volume up / down ➡

Mute ➔ 

■ **TV speaker:**

- TV speakers are active.

- When selecting "Home theatre", the sound of TV speakers is mute.
- When the equipment is turned off, TV speakers will be active.

Power on link

Set to "Set"

- ➔ When the connected Panasonic equipment is operated, TV is also automatically turned on and the content is reproduced. (Only when TV is in Standby mode.)

Power off link

Set to "Set"

➔ When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

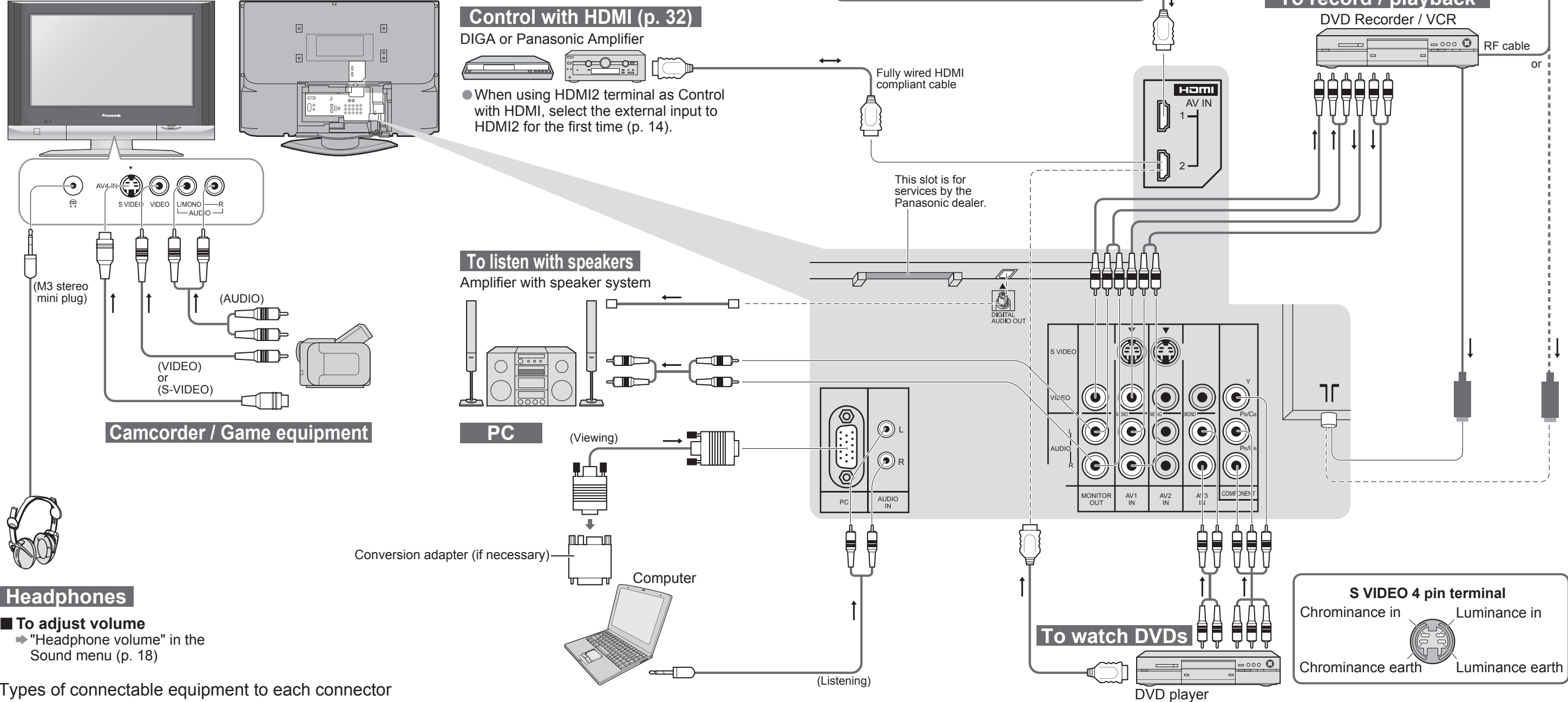
Note

- The TV remains on even if the “Control with HDMI” compatible equipment is turned off.

External Equipment

Connections

These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions of each equipment, the table below, and the specifications (p. 47).



Headphones

- To adjust volume
 - ➔ "Headphone volume" in the Sound menu (p. 18)

Types of connectable equipment to each connector

Connector	AV1 IN	AV2 IN	AV3 IN	AV4 IN	MONITOR OUT	DIGITAL AUDIO OUT	HDMI	
Recording / Playback (equipment)							1	2
■ To record / playback videocassettes / DVDs (VCR / DVD recorder)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
■ To watch DVDs (DVD player)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
■ To watch camcorder images (Video camera)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
■ To watch satellite broadcasts (Set top box)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
■ To play games (Game equipment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
■ To use amplifier with speaker system					<input type="radio"/>	<input type="radio"/>		
■ Control with HDMI							<input type="radio"/>	<input type="radio"/>

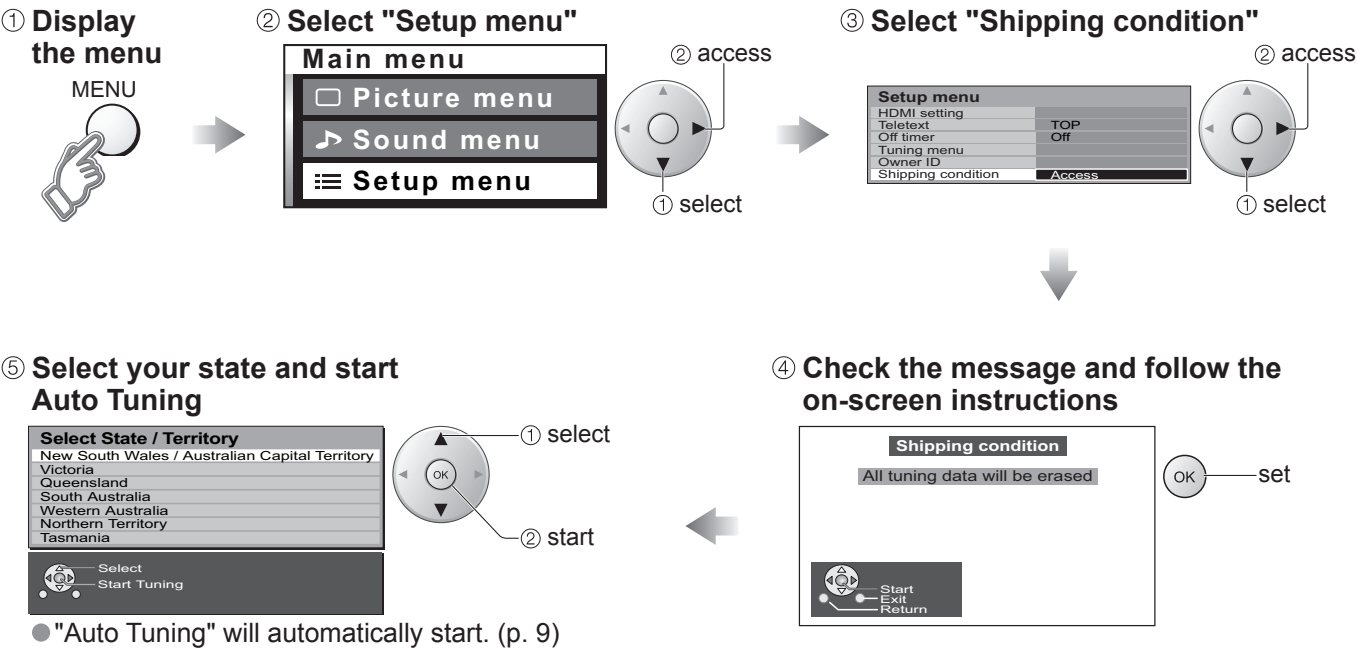
- Connect the S-VIDEO or VIDEO terminal when using AV1 / AV2 / AV4 IN terminals.
- Connect the COMPONENT or VIDEO terminal when using AV3 IN terminals.

○: Recommended Connection

Technical Information

Shipping condition (Restore settings)

Shipping condition will reset all setting back to factory setting (DVB and Analogue tuning datas, control levels etc.) other than "Owner ID".



Updating the software system (DVB mode)

Update system software regularly to ensure that you have latest version software.
If there is an update available, a notification banner is displayed when the channel has the update information.

- To download new software, press "OK" ➔ Downloading (approx. 20 min.)
If you choose not to download, press "EXIT".
- To update automatically
Set "Auto Update Search in Standby" to "On" (p. 20)
If there is a new version software being broadcast, the TV will download this automatically.
 - The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every night under the following conditions.
Standby (TV turned Off with the remote control)
Recording is not in progress.
- To update manually
Perform "System Update Search Now" (p. 20)
If there is an update available, a notification banner is displayed.
 - To download new software, press "OK" ➔ Downloading (approx. 20 min.)
If you choose not to download, press "EXIT".

Note

- During downloading, do not turn Off the TV or touch any button.
(The TV is automatically activated after downloading is completed.)

Rating (DVB mode)

Rating	Meaning	Rating	Meaning
-	Not classified	M	Mature
P	Pre school	MA 15+	Mature Adult 15+
C	Children	AV 15+	Adult strong Violence 15+
G	General	R	Restricted 18+
PG	Parental Guidance recommended		

Aspect Ratio


The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 10)

Signal name		Aspect modes							
		16:9	14:9	Just	4:3	4:3 Full	Zoom1	Zoom2	Zoom3
TV/AV1/AV2/ AV3/AV4	PAL	○	○	○	○	—	○	○	○
	PAL 525/60	○	○	○	○	—	○	○	○
	DVB-T	○	—	—	—	—	—	—	—
	M.NTSC	○	○	○	○	—	○	○	○
	NTSC	○	○	○	○	—	○	○	○
Component/HDMI	480i (60 Hz)	○	○	○	○	—	○	○	○
	480p (60 Hz)	○	○	○	○	—	○	○	○
	576i (50 Hz)	○	○	○	○	—	○	○	○
	576p (50 Hz)	○	○	○	○	—	○	○	○
	720p (50 Hz)	○	○	○	○	○	○	○	○
	720p (60 Hz)	○	○	○	○	○	○	○	○
	1080i (50 Hz)	○	○	○	○	○	○	○	○
	1080i (60 Hz)	○	○	○	○	○	○	○	○
PC input		○	—	—	○	—	—	—	—

Note


- The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9", black bands may appear at the top and bottom of the screen.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. (See the VCR manual.)
- To select the ratio manually: (Only "16:9" or "4:3" in PC mode)

16:9



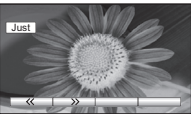
Directly displays the image at "16:9" without distortion (anamorphic).

14:9




Displays the image at the standard "14:9" without enlargement.

Just



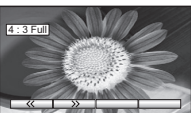
Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.

4:3



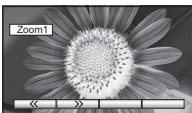
Displays the image at the standard "4:3" without distortion.

4:3 Full



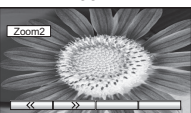
Displays a "4:3" image enlarged horizontally to fit the screen.

Zoom1



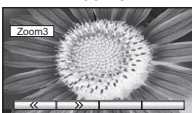
Displays a "16:9" letterbox or "4:3" image without distortion.

Zoom2



Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.

Zoom3



Displays a "2.35:1" letterbox (anamorphic) image full-screen without distortion. At "16:9", displays the image at its maximum (with slight enlargement).

Multi Window

You can display two images simultaneously, such as a TV programme (digital, analogue) and a DVD picture. (p. 10)

- The same video sources cannot be displayed simultaneously in multi window.
- Multi window cannot be used with a PC, HDMI, SD card, or when 480p, 576p, 720p, 1080i signals (Y, Pb/Cb, Pr/Cr) are being displayed from AV input.
- Some signals are reformatted for suitable viewing on your display.

Technical Information

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.

HDMI-compatible equipment (*1) with an HDMI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI1 input" menu screen. (p. 18)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant equipment. (*2): Enquire at your local digital equipment retailer shop.

Note

- HDMI2 terminal is for digital signal only.
- Use with a PC is not assumed.
- The 720p/1080i signals will be reformatted before being displayed on the screen.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- An equipment having no digital output terminal may be connected to the input terminal of either "Component", "S-VIDEO", or "Video" to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals:
480i, 480p, 576i, 576p, 720p and 1080i. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 39.
- DVI picture position is controlled by the source equipment (ie; STB, DVD player etc.). If you experience picture position errors using DVI to HDMI adapter cable, please contact the source equipment manufacturer.

PC connection

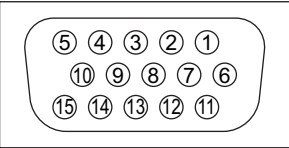
- A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV.
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
 - A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- For details of the applicable PC signals, see p. 39.
- Max. display resolution

Aspect	4:3	1,024 × 768 pixels
	16:9	1,366 × 768 pixels

- D-sub 15-pin connector signal



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC (not connected)
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC (not connected)

Control with HDMI

HDMI connections to some Panasonic equipments allow you to enjoy the easy playback or home theatre.

- Setup the equipment to enable this function. Read the manual of the equipment.
- This function may not work normally depending on the equipment condition.
- This function may not work normally when Panasonic Player theatre is connected.
- The equipment can be operated by TV's remote control with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier. Read the manuals of Amplifier.
- "Control with HDMI" function is not possible using DVI connection.

Stereo / Bilingual Sound Selection (Analogue mode)

When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **Stereo / Bilingual Sound Selection** button.

Audio Signal	STEREO	MAIN I	SUB II	MONO
Mode Indicator	⊕	I	II	▽

NICAMUsed in New Zealand, Singapore, Hong Kong etc.

Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO I (MAIN I)	NICAM STEREO	NICAM DUAL MONO (MAIN I / SUB II)
Mode Indicator	No Indicator ↔ ▽	I ↔ ▽	⊕ ↔ ▽	I → II ▽

A2 (German)Used in Australia, Malaysia etc.

Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN I / SUB II	STEREO
Mode Indicator	No Indicator ↔ ▽	I ↔ II	⊕ ↔ ▽

Note

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position, using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, Pb/Cb, Pr/Cr), HDMI and PC (D-sub 15P)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	HDMI	PC
480i (60 Hz)	15.73	59.94	*	*	
480p (60 Hz)	31.47	59.94	*	*	
576i (50 Hz)	15.63	50.00	*	*	
576p (50 Hz)	31.25	50.00	*	*	
720p (60 Hz)	45.00	60.00	*	*	
720p (50 Hz)	37.50	50.00	*	*	
1,080i (60 Hz)	33.75	60.00	*	*	
1,080i (50 Hz)	28.13	50.00	*	*	
640 × 400 @70 Hz	31.46	70.07			*
640 × 480 @60 Hz	31.47	59.94			*
640 × 480 @75 Hz	37.50	75.00			*
852 × 480 @60 Hz	31.47	59.94			*
800 × 600 @60 Hz	37.88	60.32			*
800 × 600 @75 Hz	46.88	75.00			*
800 × 600 @85 Hz	53.67	85.06			*
1,024 × 768 @60 Hz	48.36	60.00			*
1,024 × 768 @70 Hz	56.48	70.07			*
1,024 × 768 @75 Hz	60.02	75.03			*
1,024 × 768 @85 Hz	68.68	85.00			*
1,280 × 1,024 @60 Hz	63.98	60.02			*
1,366 × 768 @60 Hz	48.36	60.00			*
Macintosh13" (640 × 480)	35.00	66.67			*
Macintosh16" (832 × 624)	49.72	74.54			*
Macintosh21" (1,152 × 870)	68.68	75.06			*

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- Applicable input signal for PC is basically compatible to VESA standard timing.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

Technical Information

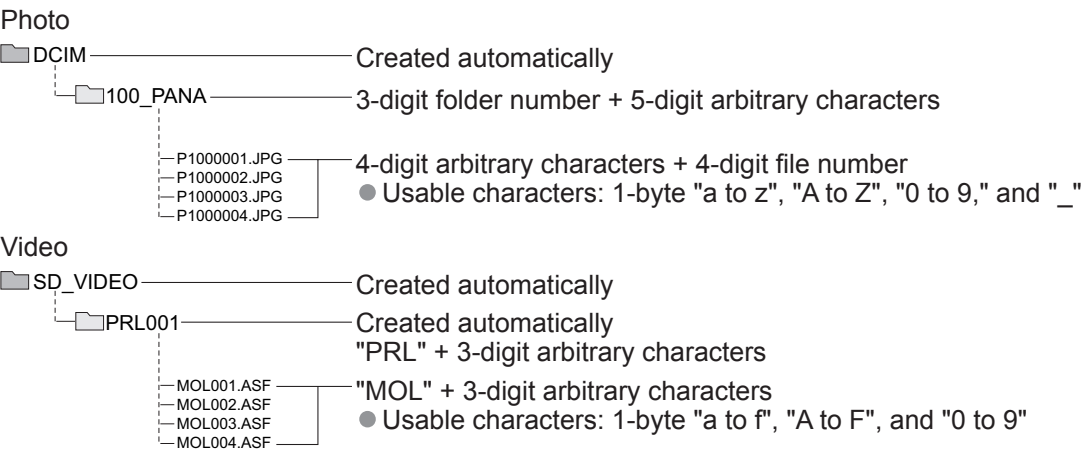
Data format for Card browsing

- Photo : Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards
- Video : Videos recorded with this TV, Panasonic DVD recorder or digital camcorder
- Data format : FAT12 or FAT16
- Number of pixels for motion picture : 320 x 240 (QVGA) or 176 x 144 (QCIF)
- Max. number of files : 65,535
- Image resolution : 8 x 8 to 5,120 x 3,840
- Sound format : G.726 (32 Kbps, 8-kHz sampling frequency, monaural)
- Compliant card type (maximum capacity): SD Card (2 GB), Multi Media Card, miniSD Card (requiring miniSD adapter)
 - Check the latest information on the card type at the following website. (English only)
<http://panasonic.co.jp/pavc/global/cs>
- *DCF (Design rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

Note

- A JPEG image modified with a PC cannot be displayed.
 - Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
 - Partly degraded files might be displayed at a reduced resolution.
 - MPEG4 view can only show moving pictures recorded by this TV, Panasonic DVD recorder DIGA or mobile camera D-snap.
 - When recording in MPEG4, format the SD card with this TV. The card may not operate properly if formatted with different equipment.
 - Memory cards must be formatted with FAT12 or FAT16 in order to be viewed on TV. If the card is not formatted, it may cause incompatibility with certain memory card adapters. If this happens, reformat the card using your digital camera.
- Reformatting the card will erase the images and pictures stored in it.** Refer to your camera manual for more information.
- This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
 - The displayed image size depends on the recorded image size.

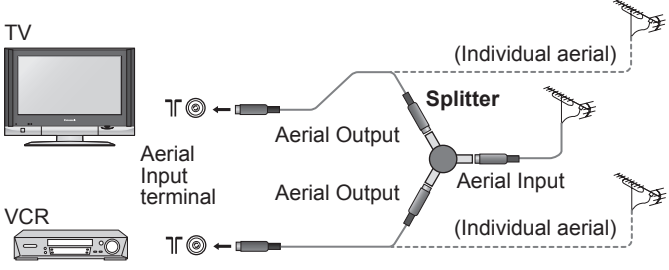
Folder structure viewed in PC



FAQs

Before requesting service or assistance, please follow these simple guides to resolve the problem. If problem still persists, please contact your local Panasonic dealer or Panasonic Customer Care Centre for assistance. (p. 48)

	Problem	Actions
Screen	White spots or shadow images (noise)	<ul style="list-style-type: none">● Check the position, direction, and connection of the aerial.
	Chaotic image, noisy	<ul style="list-style-type: none">● Set "P-NR" in the Picture menu (to remove noise). (p. 18)● Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image can be displayed	<ul style="list-style-type: none">● Is "Colour" or "Contrast" in the Picture menu set to the minimum? (p. 18)
	Blurry or distorted image (no sound or low volume)	<ul style="list-style-type: none">● Reset channels. (p. 22 and p. 24)
	Neither image nor sound is produced	<ul style="list-style-type: none">● Is the TV in "AV mode"?● Is the mains lead plugged into the socket outlet?● Is the TV turned On?● Check Picture menu (p. 18) and volume.
	The channel number is not disappeared on the screen	<ul style="list-style-type: none">● The channel number is being broadcast by the TV station. There is no way to turn this off.
Sound	There may be red spots, blue spots, green spots and black spots on the screen	<ul style="list-style-type: none">● This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of red, green, blue or black. Please note this does not affect the performance of your LCD.
	No sound is produced	<ul style="list-style-type: none">● Is "Sound Mute" active? (p. 7)● Is the volume set to the minimum?
	Sound level is low or sound is distorted	<ul style="list-style-type: none">● Sound signal reception may be deteriorated.

Problem	Actions
<p>● Digital TV reception technology requires high quality, robust DTV signals which in some domestic aerial installations, may be relatively poor despite good analogue reception.</p> <p>Aerial connection when using DTV and VCR / DVD Recorder</p>	<p>● To maintain optimum signal quality from TV aerial, use a TV aerial splitter (as illustrated) when connecting two or more equipments to the same aerial.</p> 
<p>After DVB Auto Tuning only some or no DVB channels are found</p>	<p>● Check to ensure your area is covered by DVB transmissions. (www.dba.org.au/)</p> <p>● Check that the aerial and antenna cable are designed for DVB.</p> <p>For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1.</p> <p>Note: If you live within 5-10 Km of DVB transmission towers, a combined VHF / UHF aerial should be adequate. Outside this area, separate VHF and UHF aerials provide superior reception performance.</p> <p>● If you live in a unit or apartment, check to ensure the Master Antenna TV (MATV) system is designed for analogue and DVB-T reception. Please consult your body corporate. (www.dba.org.au/)</p>
<p>Picture regularly breaks up on some channels, or "No Signal" message</p>	<p>● Check "Signal Display". (p. 22)</p> <p>If "Signal Quality" or "Signal Strength" are displayed in red or constantly changing, check aerial.</p> <p>If problem persists consult your local TV aerial installer.</p> <p>● Check that the aerial and antenna cable are designed for DVB.</p> <p>For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1.</p> <p>● Interference (known as impulse noise) from household appliances such as light switches, fridges etc may cause picture break up and / or audio distortion. Use high quality quad shielded coaxial cable fly lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer.</p> <p>● When "No Signal" message is displayed check TV aerial connection.</p> <p>● The received signal may be too weak to allow the TV to reliably lock to the desired "No Signal" channel to generate a stable picture. Repeat the tuning procedure (p. 22). If problem persists consult your local TV aerial installer.</p>

Problem	Actions
<p>DVB</p> <p>Picture very infrequently breaks up on some or all channels</p>	<p>● Electrical atmospheric interference caused by local or distant lighting storms or heavy rain with wind in "leafy" locations may cause pictures to break up and audio to mute or distort momentarily.</p> <p>● Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system.</p>
<p>Pictures from an equipment are unusual when the equipment is connected via HDMI</p>	<p>● Is the HDMI cable connected properly? (p. 34)</p> <p>● Turn Off the TV and equipment, then turn them On again.</p> <p>● Check an input signal from the equipment. (p. 39)</p> <p>● Use an equipment compliant with EIA/CEA-861/861B.</p>
<p>HDMI</p> <p>Sound is unusual</p>	<p>● Set the sound setting of the connected equipment to "2ch L.PCM".</p> <p>● Check the "HDMI1 input" setting in the Sound menu. (p. 18)</p> <p>● If digital sound connection has a problem, select analogue sound connection. (p. 38)</p>
<p>An error message appears</p>	<p>● Contact the authorized Service Centre.</p>
<p>"Control with HDMI" function does not work</p>	<p>● Switch the TV on again with the equipment on.</p> <p>● Set "Control with HDMI" to "Off", then set to "On" again. (p. 32)</p>
<p>SD</p> <p>The SD card cannot be used even when it is formatted</p>	<p>● Contact the authorized Service Centre.</p>

FAQs

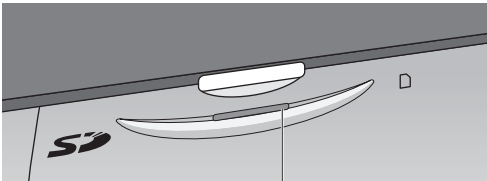
Problem	Actions
TV takes so long to turn on	<ul style="list-style-type: none">Like your computer, the TV has to run a number of diagnostic and software checks before it can display any broadcast channels.
The channel cannot be changed	<ul style="list-style-type: none">Is the TV in Teletext mode? (p. 16)
The channel cannot be selected	<ul style="list-style-type: none">Is the channel locked? (p. 24)
The remote control does not work	<ul style="list-style-type: none">Are the batteries installed correctly? (p. 6)Has the TV been switched On?
TV goes into "Standby mode"	<ul style="list-style-type: none">The sleep function is activated.The TV enters "Standby mode" about 30 min. after broadcasting ends.
An error message appears	<ul style="list-style-type: none">Follow the message's instructions.If the problem persists, contact the authorized Service Centre.
The LCD panel moves slightly when it is pushed with a finger Clattered sound might be heard	<ul style="list-style-type: none">There are some looseness around the panel to prevent the damage to the panel. The panel might move slightly when it is pushed with a finger, and clattered sound might be heard. This is not a malfunction.

SD Card: On screen messages

Message	Meaning / Action
Is SD Card in?	<ul style="list-style-type: none">Insert a SD card.
SD Card is locked Please unlock to operate	<ul style="list-style-type: none">Unlock the SD card.
This file is locked Please unlock to operate	<ul style="list-style-type: none">Unlock the file in the card.
This type of format is not supported	<ul style="list-style-type: none">The TV does not support the format. (For the applicable formats and data, see p. 40.)
This type of card is not supported	<ul style="list-style-type: none">A card not supported by the TV has been inserted. (For the supported cards, see p. 40.)
Broken file Cannot display image	<ul style="list-style-type: none">The file is broken.
Memory full	<ul style="list-style-type: none">The card memory is full.
Not enough memory	<ul style="list-style-type: none">The card does not have enough memory to operate.
Cannot read file	<ul style="list-style-type: none">The file is not readable.
Unrecordable source SD recording is stopped	<ul style="list-style-type: none">That channel cannot be recorded. (Recording is automatically stopped.)
Error Check card	<ul style="list-style-type: none">Re-insert the card. If the error persists, format the card. (p. 31)
Card recording in progress Please stop recording to operate	<ul style="list-style-type: none">That operation is not available during recording. To continue the operation, stop recording. (For example, changing channels while recording a TV programme.)
Delete file?	<ul style="list-style-type: none">Displayed when you press Red colour button to delete a MPEG4 file. Press OK button to confirm deleting.
No time data Cannot store time info	<ul style="list-style-type: none">Since the signal does not have the time information, the date is recorded as 01/01/2000.

Cautions in handling SD Card :

- Do not remove the card while the TV is accessing data ("blue" LED On) (this can damage card or TV).
- Do not touch the pins on the back of the card.
- Do not subject the card to a high pressure or impact.
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the TV. (Panasonic is not liable for any deterioration or damage of recorded data.)



WARNING: As with an small object, SD card can be swallowed by young children. Do not allow children to handle SD card. Please remove SD card immediately after use.


SD Card: On screen messages
Frequently Asked Questions

FAQs, etc.

Licence

Trademark Credits

- DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).
- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
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- TruSurround XT, SRS and (●) symbol are trademarks of SRS Labs, Inc.
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- Manufactured under license from Dolby Laboratories.
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Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)

TX-26LXD600A Declaration of Conformity No 4193, 6 June 2006

TX-32LXD600A Declaration of Conformity No 4193, 6 June 2006

Specifications

			TX-26LXD600A		TX-32LXD600A	
Power Source			AC 220-240 V, 50 / 60 Hz			
Power Consumption	Average use		127 W		174 W	
	Standby condition		0.4 W			
Display panel	Aspect Ratio		16:9			
	Visible screen size		66.1 cm		80.0 cm	
			565 mm (W) × 318 mm (H)		697 mm (W) × 392 mm (H)	
Sound	Number of pixels		1,049,088 (1,366 (W) × 768 (H))			
	Speaker		Woofer (Φ80 mm) × 2 pcs, Tweeter (16 mm × 73 mm) × 4 pcs			
	Audio Output		20 W (5 W + 5 W, 5 W + 5 W)			
Headphones			M3 (3.5 mm) stereo mini Jack × 1			
PC signals			VGA, SVGA, XGA SXGA (compressed) Refer to display table on p. 39. Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz			
Receiving Systems / Band name			PAL B/G		Reception of Off air broadcasts	
			DVB-T		7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception	
			NTSC 4.43		Playback from Video Tape Recorders	
			NTSC 3.58		Playback from Special Video Tape Recorders and Special Video Disc Players	
PAL 60Hz			(Via the AV Sockets) only			
Aerial - Rear			Standard Belling & Lee connector			
Operating Conditions			Temperature : 0 °C - 35 °C			
Connection Terminals	AV1 Input	AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]	
		VIDEO	RCA PIN Type × 1		1.0 V[p-p] (75 Ω)	
		S VIDEO	Mini DIN 4-pin		Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)	
	AV2 Input	AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]	
		VIDEO	RCA PIN Type × 1		1.0 V[p-p] (75 Ω)	
		S VIDEO	Mini DIN 4-pin		Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)	
	AV3 Input	AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]	
		VIDEO	RCA PIN Type × 1		1.0 V[p-p] (75 Ω)	
		COMPONENT	Y PB/CB, PR/CR		1.0 V[p-p] (including synchronization) ±0.35 V[p-p]	
	AV4 Input	AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]	
		VIDEO	RCA PIN Type × 1		1.0 V[p-p] (75 Ω)	
		S VIDEO	Mini DIN 4-pin		Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)	
	Monitor Output	AUDIO L - R	RCA PIN Type × 2		0.5 V[rms] (high impedance)	
		VIDEO	RCA PIN Type × 1		1.0 V[p-p] (75 Ω)	
	Others	HDMI1/2 Input	TYPE A Connectors			
		PC Input	HIGH-DENSITY D-SUB 15PIN		R, G, B/0.7 V[p-p] (75 Ω) HD, VD/TTL Level 2.0 - 5.0 V[p-p] (high impedance)	
		AUDIO Input	RCA PIN Type × 2		0.5 V[rms]	
		DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic			
		Card slot	SD CARD slot × 1			
Dimensions (W × H × D)			724 mm × 549 mm × 300 mm (With TV Stand) 724 mm × 487 mm × 141 mm (TV only)		857 mm × 625 mm × 300 mm (With TV Stand) 857 mm × 563 mm × 141 mm (TV only)	
Weight			20.0 kg Net		23.0 kg Net	

- Note
- Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.